

Appendix A

Air Quality and Greenhouse Gas

Cambria Court - South Coast AQMD Air District, Annual

Cambria Court
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	37.83	1000sqft	2.25	37,380.00	0
Condo/Townhouse	35.00	Dwelling Unit	0.86	85,806.00	100

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023

Land Use - Lot Acreage and SF vaules were provided by the Project Applicant.

Construction Phase - Non-default schedule. Schedule is based on information provided by the project applicant.

Trips and VMT - Changes to trip values result from extension of default CalEEMod schedule based on information provided by the project applicant.

Demolition - 16,750 SF of existing buildings

Grading - CalEEMod Defaults.

Architectural Coating - Non-default values reflect the breakout of the architectural coating process across 4 smaller construction phases

Vehicle Trips - Trip generates rates are consistient with the transportation analysis.

Vehicle Emission Factors - CalEEMod Defaults.

Woodstoves - no woodfire stoves or fireplaces.

Area Coating - CalEEMod Defaults.

Construction Off-road Equipment Mitigation - Complince with SCAQMD Rule 403. (d

Waste Mitigation - None.

Fleet Mix - CalEEMod Defaults

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	57,919.00	14,479.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	8.00	52.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDays	5.00	33.00
tblFireplaces	NumberWood	1.75	0.00
tblGrading	AcresOfGrading	26.00	20.00
tblGrading	MaterialImported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	37,830.00	37,380.00
tblLandUse	LandUseSquareFeet	35,000.00	85,806.00
tblLandUse	LotAcreage	0.87	2.25
tblLandUse	LotAcreage	2.19	0.86
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblVehicleTrips	ST_TR	5.67	9.25
tblVehicleTrips	SU_TR	4.84	7.84
tblVehicleTrips	WD_TR	5.81	9.44

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.6081	4.5569	3.8546	6.9000e-003	0.5270	0.2348	0.7617	0.2666	0.2192	0.4858	0.0000	601.8519	601.8519	0.1443	0.0000	605.4589
2022	0.2755	0.7074	0.7639	1.3400e-003	0.0120	0.0360	0.0479	3.2100e-003	0.0339	0.0371	0.0000	116.3517	116.3517	0.0244	0.0000	116.9611
Maximum	0.6081	4.5569	3.8546	6.9000e-003	0.5270	0.2348	0.7617	0.2666	0.2192	0.4858	0.0000	601.8519	601.8519	0.1443	0.0000	605.4589

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.6081	4.5569	3.8546	6.9000e-003	0.2381	0.2348	0.4728	0.1127	0.2192	0.3319	0.0000	601.8512	601.8512	0.1443	0.0000	605.4582
2022	0.2755	0.7074	0.7639	1.3400e-003	0.0120	0.0360	0.0479	3.2100e-003	0.0339	0.0371	0.0000	116.3516	116.3516	0.0244	0.0000	116.9610

Maximum	0.6081	4.5569	3.8546	6.9000e-003	0.2381	0.2348	0.4728	0.1127	0.2192	0.3319	0.0000	601.8512	601.8512	0.1443	0.0000	605.4582
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.61	0.00	35.68	57.05	0.00	29.44	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.1894	1.1894
2	4-1-2021	6-30-2021	0.9460	0.9460
3	7-1-2021	9-30-2021	1.0784	1.0784
4	10-1-2021	12-31-2021	1.8644	1.8644
5	1-1-2022	3-31-2022	0.9850	0.9850
		Highest	1.8644	1.8644

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3633	0.0121	0.4714	4.1000e-004		0.0200	0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074
Energy	3.4500e-003	0.0294	0.0125	1.9000e-004		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	89.6627	89.6627	2.9500e-003	1.1000e-003	90.0641
Mobile	0.0864	0.4229	1.1993	4.8000e-003	0.4174	3.4000e-003	0.4208	0.1118	3.1600e-003	0.1150	0.0000	444.3425	444.3425	0.0200	0.0000	444.8421
Waste						0.0000	0.0000		0.0000	0.0000	3.2682	0.0000	3.2682	0.1931	0.0000	8.0967
Water						0.0000	0.0000		0.0000	0.0000	0.7235	14.5499	15.2734	0.0749	1.8800e-003	17.7059
Total	0.4532	0.4644	1.6832	5.4000e-003	0.4174	0.0258	0.4432	0.1118	0.0255	0.1374	6.3339	556.2897	562.6236	0.3026	3.1100e-003	571.1162

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3633	0.0121	0.4714	4.1000e-004		0.0200	0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074
Energy	3.4500e-003	0.0294	0.0125	1.9000e-004		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	89.6627	89.6627	2.9500e-003	1.1000e-003	90.0641
Mobile	0.0864	0.4229	1.1993	4.8000e-003	0.4174	3.4000e-003	0.4208	0.1118	3.1600e-003	0.1150	0.0000	444.3425	444.3425	0.0200	0.0000	444.8421
Waste						0.0000	0.0000		0.0000	0.0000	1.6341	0.0000	1.6341	0.0966	0.0000	4.0484
Water						0.0000	0.0000		0.0000	0.0000	0.7235	14.5499	15.2734	0.0749	1.8800e-003	17.7059
Total	0.4532	0.4644	1.6832	5.4000e-003	0.4174	0.0258	0.4432	0.1118	0.0255	0.1374	4.6999	556.2897	560.9895	0.2061	3.1100e-003	567.0678

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.80	0.00	0.29	31.91	0.00	0.71

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/29/2021	5	20	
2	Site Preparation	Site Preparation	2/1/2021	3/17/2021	5	33	
3	Grading	Grading	3/18/2021	5/28/2021	5	52	
4	Paving	Paving	4/19/2021	5/21/2021	5	25	
5	Building Construction 1	Building Construction	6/1/2021	11/29/2021	5	130	
6	Building Construction 2	Building Construction	8/2/2021	1/31/2022	5	131	
7	Building Construction 3	Building Construction	10/1/2021	3/31/2022	5	130	
8	Architectural Coating 1	Architectural Coating	11/1/2021	11/24/2021	5	18	

9	Architectural Coating 2	Architectural Coating	1/3/2022	1/26/2022	5	18
10	Architectural Coating 3	Architectural Coating	3/1/2022	3/24/2022	5	18

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 2.25

Residential Indoor: 43,439; Residential Outdoor: 57,919; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	7.00	231	0.29
Building Construction 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	1	7.00	231	0.29

Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction 3	Cranes	1	7.00	231	0.29
Building Construction 3	Forklifts	3	8.00	89	0.20
Building Construction 3	Generator Sets	1	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	76.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 1	9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 3	9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 1	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2400e-003	0.0000	8.2400e-003	1.2500e-003	0.0000	1.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	0.0317	0.3144	0.2157	3.9000e-004	8.2400e-003	0.0155	0.0238	1.2500e-003	0.0144	0.0157	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	9.9000e-003	2.1000e-003	3.0000e-005	6.5000e-004	3.0000e-005	6.8000e-004	1.8000e-004	3.0000e-005	2.1000e-004	0.0000	2.8375	2.8375	1.9000e-004	0.0000	2.8423
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	4.9000e-004	5.5800e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5291	1.5291	4.0000e-005	0.0000	1.5301
Total	9.5000e-004	0.0104	7.6800e-003	5.0000e-005	2.4100e-003	4.0000e-005	2.4500e-003	6.5000e-004	4.0000e-005	6.9000e-004	0.0000	4.3665	4.3665	2.3000e-004	0.0000	4.3724

Mitigated Construction On-Site

Off-Road	0.0642	0.6682	0.3491	6.3000e-004		0.0337	0.0337		0.0310	0.0310	0.0000	55.1689	55.1689	0.0178	0.0000	55.6150
Total	0.0642	0.6682	0.3491	6.3000e-004	0.2981	0.0337	0.3318	0.1639	0.0310	0.1949	0.0000	55.1689	55.1689	0.0178	0.0000	55.6150

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.1000e-004	0.0104	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8383	2.8383	8.0000e-005	0.0000	2.8402
Total	1.2400e-003	9.1000e-004	0.0104	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8383	2.8383	8.0000e-005	0.0000	2.8402

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1163	0.0000	0.1163	0.0639	0.0000	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0642	0.6682	0.3490	6.3000e-004		0.0337	0.0337		0.0310	0.0310	0.0000	55.1689	55.1689	0.0178	0.0000	55.6149
Total	0.0642	0.6682	0.3490	6.3000e-004	0.1163	0.0337	0.1500	0.0639	0.0310	0.0949	0.0000	55.1689	55.1689	0.0178	0.0000	55.6149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	9.1000e-004	0.0104	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8383	2.8383	8.0000e-005	0.0000	2.8402
Total	1.2400e-003	9.1000e-004	0.0104	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8383	2.8383	8.0000e-005	0.0000	2.8402

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1673	0.0000	0.1673	0.0872	0.0000	0.0872	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0596	0.6432	0.4123	7.7000e-004		0.0302	0.0302		0.0278	0.0278	0.0000	67.7396	67.7396	0.0219	0.0000	68.2873
Total	0.0596	0.6432	0.4123	7.7000e-004	0.1673	0.0302	0.1975	0.0872	0.0278	0.1150	0.0000	67.7396	67.7396	0.0219	0.0000	68.2873

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	9.2000e-004	0.0326	6.9100e-003	1.0000e-004	2.1500e-003	1.0000e-004	2.2500e-003	5.9000e-004	9.0000e-005	6.8000e-004	0.0000	9.3337	9.3337	6.4000e-004	0.0000	9.3497
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.2800e-003	0.0145	4.0000e-005	4.5600e-003	3.0000e-005	4.6000e-003	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	3.9756	3.9756	1.1000e-004	0.0000	3.9782
Total	2.6500e-003	0.0339	0.0214	1.4000e-004	6.7100e-003	1.3000e-004	6.8500e-003	1.8000e-003	1.2000e-004	1.9200e-003	0.0000	13.3093	13.3093	7.5000e-004	0.0000	13.3279

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0652	0.0000	0.0652	0.0340	0.0000	0.0340	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0596	0.6432	0.4123	7.7000e-004		0.0302	0.0302		0.0278	0.0278	0.0000	67.7395	67.7395	0.0219	0.0000	68.2872
Total	0.0596	0.6432	0.4123	7.7000e-004	0.0652	0.0302	0.0954	0.0340	0.0278	0.0618	0.0000	67.7395	67.7395	0.0219	0.0000	68.2872

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0326	6.9100e-003	1.0000e-004	2.1500e-003	1.0000e-004	2.2500e-003	5.9000e-004	9.0000e-005	6.8000e-004	0.0000	9.3337	9.3337	6.4000e-004	0.0000	9.3497
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.2800e-003	0.0145	4.0000e-005	4.5600e-003	3.0000e-005	4.6000e-003	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	3.9756	3.9756	1.1000e-004	0.0000	3.9782
Total	2.6500e-003	0.0339	0.0214	1.4000e-004	6.7100e-003	1.3000e-004	6.8500e-003	1.8000e-003	1.2000e-004	1.9200e-003	0.0000	13.3093	13.3093	7.5000e-004	0.0000	13.3279

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0137	0.1355	0.1533	2.4000e-004		7.2400e-003	7.2400e-003		6.6800e-003	6.6800e-003	0.0000	20.4633	20.4633	6.4300e-003	0.0000	20.6240
Paving	2.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0166	0.1355	0.1533	2.4000e-004		7.2400e-003	7.2400e-003		6.6800e-003	6.6800e-003	0.0000	20.4633	20.4633	6.4300e-003	0.0000	20.6240

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908
Total	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0137	0.1355	0.1533	2.4000e-004		7.2400e-003	7.2400e-003		6.6800e-003	6.6800e-003	0.0000	20.4633	20.4633	6.4300e-003	0.0000	20.6240
Paving	2.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0166	0.1355	0.1533	2.4000e-004		7.2400e-003	7.2400e-003		6.6800e-003	6.6800e-003	0.0000	20.4633	20.4633	6.4300e-003	0.0000	20.6240

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908
Total	1.0400e-003	7.7000e-004	8.7100e-003	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.3892	2.3892	6.0000e-005	0.0000	2.3908

3.6 Building Construction 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1236	1.1331	1.0774	1.7500e-003		0.0623	0.0623		0.0586	0.0586	0.0000	150.5642	150.5642	0.0363	0.0000	151.4723

Total	0.1236	1.1331	1.0774	1.7500e-003		0.0623	0.0623		0.0586	0.0586	0.0000	150.5642	150.5642	0.0363	0.0000	151.4723
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0252	6.2400e-003	7.0000e-005	1.6400e-003	5.0000e-005	1.6900e-003	4.7000e-004	5.0000e-005	5.2000e-004	0.0000	6.3478	6.3478	4.0000e-004	0.0000	6.3579
Worker	5.4200e-003	4.0000e-003	0.0453	1.4000e-004	0.0143	1.1000e-004	0.0144	3.7900e-003	1.0000e-004	3.8900e-003	0.0000	12.4236	12.4236	3.3000e-004	0.0000	12.4319
Total	6.1600e-003	0.0292	0.0515	2.1000e-004	0.0159	1.6000e-004	0.0161	4.2600e-003	1.5000e-004	4.4100e-003	0.0000	18.7714	18.7714	7.3000e-004	0.0000	18.7898

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1236	1.1331	1.0774	1.7500e-003		0.0623	0.0623		0.0586	0.0586	0.0000	150.5641	150.5641	0.0363	0.0000	151.4722
Total	0.1236	1.1331	1.0774	1.7500e-003		0.0623	0.0623		0.0586	0.0586	0.0000	150.5641	150.5641	0.0363	0.0000	151.4722

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0252	6.2400e-003	7.0000e-005	1.6400e-003	5.0000e-005	1.6900e-003	4.7000e-004	5.0000e-005	5.2000e-004	0.0000	6.3478	6.3478	4.0000e-004	0.0000	6.3579
Worker	5.4200e-003	4.0000e-003	0.0453	1.4000e-004	0.0143	1.1000e-004	0.0144	3.7900e-003	1.0000e-004	3.8900e-003	0.0000	12.4236	12.4236	3.3000e-004	0.0000	12.4319
Total	6.1600e-003	0.0292	0.0515	2.1000e-004	0.0159	1.6000e-004	0.0161	4.2600e-003	1.5000e-004	4.4100e-003	0.0000	18.7714	18.7714	7.3000e-004	0.0000	18.7898

3.7 Building Construction 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	0.9588	0.9116	1.4800e-003		0.0527	0.0527		0.0496	0.0496	0.0000	127.4005	127.4005	0.0307	0.0000	128.1689
Total	0.1046	0.9588	0.9116	1.4800e-003		0.0527	0.0527		0.0496	0.0496	0.0000	127.4005	127.4005	0.0307	0.0000	128.1689

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-004	0.0213	5.2800e-003	6.0000e-005	1.3900e-003	4.0000e-005	1.4300e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.3712	5.3712	3.4000e-004	0.0000	5.3797
Worker	4.5800e-003	3.3900e-003	0.0383	1.2000e-004	0.0121	9.0000e-005	0.0122	3.2100e-003	8.0000e-005	3.2900e-003	0.0000	10.5123	10.5123	2.8000e-004	0.0000	10.5193
Total	5.2100e-003	0.0247	0.0436	1.8000e-004	0.0135	1.3000e-004	0.0136	3.6100e-003	1.2000e-004	3.7300e-003	0.0000	15.8835	15.8835	6.2000e-004	0.0000	15.8990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	0.9588	0.9116	1.4800e-003		0.0527	0.0527		0.0496	0.0496	0.0000	127.4004	127.4004	0.0307	0.0000	128.1688
Total	0.1046	0.9588	0.9116	1.4800e-003		0.0527	0.0527		0.0496	0.0496	0.0000	127.4004	127.4004	0.0307	0.0000	128.1688

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-004	0.0213	5.2800e-003	6.0000e-005	1.3900e-003	4.0000e-005	1.4300e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.3712	5.3712	3.4000e-004	0.0000	5.3797
Worker	4.5800e-003	3.3900e-003	0.0383	1.2000e-004	0.0121	9.0000e-005	0.0122	3.2100e-003	8.0000e-005	3.2900e-003	0.0000	10.5123	10.5123	2.8000e-004	0.0000	10.5193
Total	5.2100e-003	0.0247	0.0436	1.8000e-004	0.0135	1.3000e-004	0.0136	3.6100e-003	1.2000e-004	3.7300e-003	0.0000	15.8835	15.8835	6.2000e-004	0.0000	15.8990

3.7 Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0179	0.1640	0.1718	2.8000e-004		8.4900e-003	8.4900e-003		7.9900e-003	7.9900e-003	0.0000	24.3312	24.3312	5.8300e-003	0.0000	24.4769
Total	0.0179	0.1640	0.1718	2.8000e-004		8.4900e-003	8.4900e-003		7.9900e-003	7.9900e-003	0.0000	24.3312	24.3312	5.8300e-003	0.0000	24.4769

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8500e-003	9.5000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0164	1.0164	6.0000e-005	0.0000	1.0180
Worker	8.2000e-004	5.8000e-004	6.7600e-003	2.0000e-005	2.3000e-003	2.0000e-005	2.3200e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	1.9349	1.9349	5.0000e-005	0.0000	1.9362
Total	9.3000e-004	4.4300e-003	7.7100e-003	3.0000e-005	2.5600e-003	3.0000e-005	2.5900e-003	6.9000e-004	3.0000e-005	7.1000e-004	0.0000	2.9513	2.9513	1.1000e-004	0.0000	2.9541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0179	0.1640	0.1718	2.8000e-004		8.4900e-003	8.4900e-003		7.9900e-003	7.9900e-003	0.0000	24.3311	24.3311	5.8300e-003	0.0000	24.4769
Total	0.0179	0.1640	0.1718	2.8000e-004		8.4900e-003	8.4900e-003		7.9900e-003	7.9900e-003	0.0000	24.3311	24.3311	5.8300e-003	0.0000	24.4769

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8500e-003	9.5000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0164	1.0164	6.0000e-005	0.0000	1.0180
Worker	8.2000e-004	5.8000e-004	6.7600e-003	2.0000e-005	2.3000e-003	2.0000e-005	2.3200e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	1.9349	1.9349	5.0000e-005	0.0000	1.9362
Total	9.3000e-004	4.4300e-003	7.7100e-003	3.0000e-005	2.5600e-003	3.0000e-005	2.5900e-003	6.9000e-004	3.0000e-005	7.1000e-004	0.0000	2.9513	2.9513	1.1000e-004	0.0000	2.9541

3.8 Building Construction 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0627	0.5753	0.5470	8.9000e-004		0.0316	0.0316		0.0297	0.0297	0.0000	76.4403	76.4403	0.0184	0.0000	76.9013

Total	0.0627	0.5753	0.5470	8.9000e-004		0.0316	0.0316		0.0297	0.0297	0.0000	76.4403	76.4403	0.0184	0.0000	76.9013
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0128	3.1700e-003	3.0000e-005	8.3000e-004	3.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2227	3.2227	2.0000e-004	0.0000	3.2278
Worker	2.7500e-003	2.0300e-003	0.0230	7.0000e-005	7.2400e-003	5.0000e-005	7.3000e-003	1.9200e-003	5.0000e-005	1.9700e-003	0.0000	6.3074	6.3074	1.7000e-004	0.0000	6.3116
Total	3.1300e-003	0.0148	0.0262	1.0000e-004	8.0700e-003	8.0000e-005	8.1600e-003	2.1600e-003	7.0000e-005	2.2300e-003	0.0000	9.5301	9.5301	3.7000e-004	0.0000	9.5394

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0627	0.5753	0.5470	8.9000e-004		0.0316	0.0316		0.0297	0.0297	0.0000	76.4402	76.4402	0.0184	0.0000	76.9013
Total	0.0627	0.5753	0.5470	8.9000e-004		0.0316	0.0316		0.0297	0.0297	0.0000	76.4402	76.4402	0.0184	0.0000	76.9013

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0128	3.1700e-003	3.0000e-005	8.3000e-004	3.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2227	3.2227	2.0000e-004	0.0000	3.2278
Worker	2.7500e-003	2.0300e-003	0.0230	7.0000e-005	7.2400e-003	5.0000e-005	7.3000e-003	1.9200e-003	5.0000e-005	1.9700e-003	0.0000	6.3074	6.3074	1.7000e-004	0.0000	6.3116
Total	3.1300e-003	0.0148	0.0262	1.0000e-004	8.0700e-003	8.0000e-005	8.1600e-003	2.1600e-003	7.0000e-005	2.2300e-003	0.0000	9.5301	9.5301	3.7000e-004	0.0000	9.5394

3.8 Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0546	0.4997	0.5236	8.6000e-004		0.0259	0.0259		0.0244	0.0244	0.0000	74.1521	74.1521	0.0178	0.0000	74.5962
Total	0.0546	0.4997	0.5236	8.6000e-004		0.0259	0.0259		0.0244	0.0244	0.0000	74.1521	74.1521	0.0178	0.0000	74.5962

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4000e-004	0.0117	2.9000e-003	3.0000e-005	8.1000e-004	2.0000e-005	8.3000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0976	3.0976	1.9000e-004	0.0000	3.1023
Worker	2.5100e-003	1.7800e-003	0.0206	7.0000e-005	7.0200e-003	5.0000e-005	7.0700e-003	1.8600e-003	5.0000e-005	1.9100e-003	0.0000	5.8969	5.8969	1.5000e-004	0.0000	5.9006
Total	2.8500e-003	0.0135	0.0235	1.0000e-004	7.8300e-003	7.0000e-005	7.9000e-003	2.0900e-003	7.0000e-005	2.1600e-003	0.0000	8.9945	8.9945	3.4000e-004	0.0000	9.0030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0546	0.4997	0.5236	8.6000e-004		0.0259	0.0259		0.0244	0.0244	0.0000	74.1520	74.1520	0.0178	0.0000	74.5961
Total	0.0546	0.4997	0.5236	8.6000e-004		0.0259	0.0259		0.0244	0.0244	0.0000	74.1520	74.1520	0.0178	0.0000	74.5961

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4000e-004	0.0117	2.9000e-003	3.0000e-005	8.1000e-004	2.0000e-005	8.3000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0976	3.0976	1.9000e-004	0.0000	3.1023
Worker	2.5100e-003	1.7800e-003	0.0206	7.0000e-005	7.0200e-003	5.0000e-005	7.0700e-003	1.8600e-003	5.0000e-005	1.9100e-003	0.0000	5.8969	5.8969	1.5000e-004	0.0000	5.9006
Total	2.8500e-003	0.0135	0.0235	1.0000e-004	7.8300e-003	7.0000e-005	7.9000e-003	2.0900e-003	7.0000e-005	2.1600e-003	0.0000	8.9945	8.9945	3.4000e-004	0.0000	9.0030

3.9 Architectural Coating 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	0.1246	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.5100e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6881	0.6881	2.0000e-005	0.0000	0.6885
Total	3.0000e-004	2.2000e-004	2.5100e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6881	0.6881	2.0000e-005	0.0000	0.6885

Mitigated Construction On-Site

Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	0.0742	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638
Total	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	0.0742	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638
Total	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638

3.11 Architectural Coating 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	0.1245	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638
Total	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	0.1245	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638
Total	2.8000e-004	2.0000e-004	2.3200e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6634	0.6634	2.0000e-005	0.0000	0.6638

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0864	0.4229	1.1993	4.8000e-003	0.4174	3.4000e-003	0.4208	0.1118	3.1600e-003	0.1150	0.0000	444.3425	444.3425	0.0200	0.0000	444.8421
Unmitigated	0.0864	0.4229	1.1993	4.8000e-003	0.4174	3.4000e-003	0.4208	0.1118	3.1600e-003	0.1150	0.0000	444.3425	444.3425	0.0200	0.0000	444.8421

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	330.40	323.75	274.40	1,098,443	1,098,443
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	330.40	323.75	274.40	1,098,443	1,098,443

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

Total		3.4500e-003	0.0294	0.0125	1.9000e-004		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	34.0964	34.0964	6.5000e-004	6.3000e-004	34.2990
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Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	638943	3.4500e-003	0.0294	0.0125	1.9000e-004		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	34.0964	34.0964	6.5000e-004	6.3000e-004	34.2990
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4500e-003	0.0294	0.0125	1.9000e-004		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	34.0964	34.0964	6.5000e-004	6.3000e-004	34.2990

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	174396	55.5663	2.2900e-003	4.7000e-004	55.7651
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		55.5663	2.2900e-003	4.7000e-004	55.7651

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	174396	55.5663	2.2900e-003	4.7000e-004	55.7651
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		55.5663	2.2900e-003	4.7000e-004	55.7651

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3633	0.0121	0.4714	4.1000e-004		0.0200	0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074
Unmitigated	0.3633	0.0121	0.4714	4.1000e-004		0.0200	0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					

Architectural Coating	0.0274				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3125				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0125	7.9200e-003	0.1099	3.9000e-004	0.0180	0.0180		0.0180	0.0180	2.3423	7.1441	9.4864	0.0111	1.3000e-004	9.8026
Landscaping	0.0109	4.1700e-003	0.3615	2.0000e-005	2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	0.5905	0.5905	5.7000e-004	0.0000	0.6048
Total	0.3633	0.0121	0.4714	4.1000e-004		0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0274					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0125	7.9200e-003	0.1099	3.9000e-004		0.0180	0.0180		0.0180	0.0180	2.3423	7.1441	9.4864	0.0111	1.3000e-004	9.8026
Landscaping	0.0109	4.1700e-003	0.3615	2.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	0.5905	0.5905	5.7000e-004	0.0000	0.6048
Total	0.3633	0.0121	0.4714	4.1000e-004		0.0200	0.0200		0.0200	0.0200	2.3423	7.7346	10.0769	0.0117	1.3000e-004	10.4074

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
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Category	MT/yr			
Mitigated	15.2734	0.0749	1.8800e-003	17.7059
Unmitigated	15.2734	0.0749	1.8800e-003	17.7059

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.28039 / 1.43764	15.2734	0.0749	1.8800e-003	17.7059
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		15.2734	0.0749	1.8800e-003	17.7059

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.28039 / 1.43764	15.2734	0.0749	1.8800e-003	17.7059
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		15.2734	0.0749	1.8800e-003	17.7059

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.6341	0.0966	0.0000	4.0484
Unmitigated	3.2682	0.1931	0.0000	8.0967

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	16.1	3.2682	0.1931	0.0000	8.0967
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		3.2682	0.1931	0.0000	8.0967

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	8.05	1.6341	0.0966	0.0000	4.0484
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.6341	0.0966	0.0000	4.0484

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Cambria Court - South Coast AQMD Air District, Winter

Cambria Court
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	37.83	1000sqft	2.25	37,380.00	0
Condo/Townhouse	35.00	Dwelling Unit	0.86	85,806.00	100

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023

Land Use - Lot Acreage and SF vaules were provided by the Project Applicant.

Construction Phase - Non-default schedule. Schedule is based on information provided by the project applicant.

Trips and VMT - Changes to trip values result from extension of default CalEEMod schedule based on information provided by the project applicant.

Demolition - 16,750 SF of existing buildings

Grading - CalEEMod Defaults.

Architectural Coating - Non-default values reflect the breakout of the architectural coating process across 4 smaller construction phases

Vehicle Trips - Trip generates rates are consistient with the transportation analysis.

Vehicle Emission Factors - CalEEMod Defaults.

Woodstoves - no woodfire stoves or fireplaces.

Area Coating - CalEEMod Defaults.

Construction Off-road Equipment Mitigation - Complince with SCAQMD Rule 403. (d

Waste Mitigation - None.

Fleet Mix - CalEEMod Defaults

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	57,919.00	14,479.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	8.00	52.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDays	5.00	33.00
tblFireplaces	NumberWood	1.75	0.00
tblGrading	AcresOfGrading	26.00	20.00
tblGrading	MaterialImported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	37,830.00	37,380.00
tblLandUse	LandUseSquareFeet	35,000.00	85,806.00
tblLandUse	LotAcreage	0.87	2.25
tblLandUse	LotAcreage	2.19	0.86
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblVehicleTrips	ST_TR	5.67	9.25
tblVehicleTrips	SU_TR	4.84	7.84
tblVehicleTrips	WD_TR	5.81	9.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	19.8979	55.1678	54.1492	0.0938	18.2675	2.9779	20.3134	9.9840	2.8054	11.8663	0.0000	8,963.2541	8,963.2541	1.9075	0.0000	9,010.9410
2022	15.6706	33.4911	36.2319	0.0636	0.5877	1.7050	2.2927	0.1570	1.6089	1.7659	0.0000	6,079.1681	6,079.1681	1.2679	0.0000	6,110.8648
Maximum	19.8979	55.1678	54.1492	0.0938	18.2675	2.9779	20.3134	9.9840	2.8054	11.8663	0.0000	8,963.2541	8,963.2541	1.9075	0.0000	9,010.9410

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	19.8979	55.1678	54.1492	0.0938	7.2470	2.9779	9.2930	3.9263	2.8054	5.8086	0.0000	8,963.2541	8,963.2541	1.9075	0.0000	9,010.9410
2022	15.6706	33.4911	36.2319	0.0636	0.5877	1.7050	2.2927	0.1570	1.6089	1.7659	0.0000	6,079.1681	6,079.1681	1.2679	0.0000	6,110.8648

Maximum	19.8979	55.1678	54.1492	0.0938	7.2470	2.9779	9.2930	3.9263	2.8054	5.8086	0.0000	8,963.2541	8,963.2541	1.9075	0.0000	9,010.9410
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	58.45	0.00	48.75	59.73	0.00	44.44	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Energy	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Mobile	0.4982	2.3488	6.6555	0.0267	2.4007	0.0193	2.4200	0.6423	0.0179	0.6602		2,726.4456	2,726.4456	0.1251		2,729.5719
Total	3.4690	3.1769	18.4048	0.0591	2.4007	1.4877	3.8884	0.6423	1.4863	2.1286	206.5573	3,567.5976	3,774.1549	1.1117	0.0153	3,806.5148

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Energy	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Mobile	0.4982	2.3488	6.6555	0.0267	2.4007	0.0193	2.4200	0.6423	0.0179	0.6602		2,726.4456	2,726.4456	0.1251		2,729.5719

Total	3.4690	3.1769	18.4048	0.0591	2.4007	1.4877	3.8884	0.6423	1.4863	2.1286	206.5573	3,567.5976	3,774.1549	1.1117	0.0153	3,806.5148
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/29/2021	5	20	
2	Site Preparation	Site Preparation	2/1/2021	3/17/2021	5	33	
3	Grading	Grading	3/18/2021	5/28/2021	5	52	
4	Paving	Paving	4/19/2021	5/21/2021	5	25	
5	Building Construction 1	Building Construction	6/1/2021	11/29/2021	5	130	
6	Building Construction 2	Building Construction	8/2/2021	1/31/2022	5	131	
7	Building Construction 3	Building Construction	10/1/2021	3/31/2022	5	130	
8	Architectural Coating 1	Architectural Coating	11/1/2021	11/24/2021	5	18	
9	Architectural Coating 2	Architectural Coating	1/3/2022	1/26/2022	5	18	
10	Architectural Coating 3	Architectural Coating	3/1/2022	3/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 2.25

Residential Indoor: 43,439; Residential Outdoor: 57,919; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	7.00	231	0.29
Building Construction 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	1	7.00	231	0.29
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction 3	Cranes	1	7.00	231	0.29
Building Construction 3	Forklifts	3	8.00	89	0.20
Building Construction 3	Generator Sets	1	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Demolition		6	16.00	0.00	76.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading		6	16.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving		8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3 Architectural Coating 1		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8244	0.0000	0.8244	0.1248	0.0000	0.1248			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.8244	1.5513	2.3757	0.1248	1.4411	1.5659		3,747.9449	3,747.9449	1.0549		3,774.3174

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0284	0.9728	0.2185	2.8600e-003	0.0664	3.0300e-003	0.0694	0.0182	2.8900e-003	0.0211		309.3942	309.3942	0.0219		309.9422
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
Total	0.1022	1.0207	0.7601	4.5200e-003	0.2452	4.3500e-003	0.2496	0.0656	4.1000e-003	0.0697		475.1011	475.1011	0.0264		475.7601

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3215	0.0000	0.3215	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.3215	1.5513	1.8729	0.0487	1.4411	1.4898	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Hauling	0.0284	0.9728	0.2185	2.8600e-003	0.0664	3.0300e-003	0.0694	0.0182	2.8900e-003	0.0211		309.3942	309.3942	0.0219	309.9422
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003	165.8179
Total	0.1022	1.0207	0.7601	4.5200e-003	0.2452	4.3500e-003	0.2496	0.0656	4.1000e-003	0.0697		475.1011	475.1011	0.0264	475.7601

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0830	0.0539	0.6094		1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000				0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920			3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920			3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003			186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003			186.5451

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4343	0.0000	6.4343	3.3549	0.0000	3.3549			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.4343	1.1599	7.5942	3.3549	1.0671	4.4221		2,871.9285	2,871.9285	0.9288		2,895.1495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0359	1.2308	0.2764	3.6200e-003	0.0840	3.8300e-003	0.0878	0.0230	3.6600e-003	0.0267		391.4401	391.4401	0.0277		392.1333
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
Total	0.1097	1.2787	0.8181	5.2800e-003	0.2629	5.1500e-003	0.2680	0.0705	4.8700e-003	0.0753		557.1469	557.1469	0.0322		557.9512

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					2.5094	0.0000	2.5094	1.3084	0.0000	1.3084			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	2.5094	1.1599	3.6693	1.3084	1.0671	2.3755	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0359	1.2308	0.2764	3.6200e-003	0.0840	3.8300e-003	0.0878	0.0230	3.6600e-003	0.0267		391.4401	391.4401	0.0277		392.1333
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
Total	0.1097	1.2787	0.8181	5.2800e-003	0.2629	5.1500e-003	0.2680	0.0705	4.8700e-003	0.0753		557.1469	557.1469	0.0322		557.9512

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3298	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3298	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

3.6 Building Construction 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694

3.7 Building Construction 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694

3.7 Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
Total	0.0977	0.4148	0.7208	2.9800e-003	0.2492	2.2900e-003	0.2514	0.0667	2.1300e-003	0.0688		304.5850	304.5850	0.0118		304.8806

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003	104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608	199.7073	199.7073	5.0100e-003		199.8326
Total	0.0977	0.4148	0.7208	2.9800e-003	0.2492	2.2900e-003	0.2514	0.0667	2.1300e-003	0.0688		304.5850	304.5850	0.0118	304.8806

3.8 Building Construction 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.3803	0.1013	9.9000e-004	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		105.8201	105.8201	7.0800e-003		105.9971
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.1040	0.4402	0.7784	3.0700e-003	0.2492	2.4400e-003	0.2516	0.0667	2.2800e-003	0.0689		312.9537	312.9537	0.0126		313.2694

3.8 Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
Total	0.0977	0.4148	0.7208	2.9800e-003	0.2492	2.2900e-003	0.2514	0.0667	2.1300e-003	0.0688		304.5850	304.5850	0.0118		304.8806

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0110	0.3607	0.0958	9.8000e-004	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0300e-003		104.8777	104.8777	6.8100e-003		105.0480
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
Total	0.0977	0.4148	0.7208	2.9800e-003	0.2492	2.2900e-003	0.2514	0.0667	2.1300e-003	0.0688		304.5850	304.5850	0.0118		304.8806

3.9 Architectural Coating 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	13.8463	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	13.8463	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089
Total	0.0369	0.0240	0.2708	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		82.8534	82.8534	2.2200e-003		82.9089

3.10 Architectural Coating 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	8.2391	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	8.2391	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

3.11 Architectural Coating 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	13.8320	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	13.8320	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4982	2.3488	6.6555	0.0267	2.4007	0.0193	2.4200	0.6423	0.0179	0.6602		2,726.4456	2,726.4456	0.1251		2,729.5719

Unmitigated	0.4982	2.3488	6.6555	0.0267	2.4007	0.0193	2.4200	0.6423	0.0179	0.6602		2,726.4456	2,726.4456	0.1251		2,729.5719
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	330.40	323.75	274.40	1,098,443	1,098,443
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	330.40	323.75	274.40	1,098,443	1,098,443

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
	NaturalGas Mitigated	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003
NaturalGas Unmitigated	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1750.53	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.75053	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Unmitigated	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0024	0.6334	8.7886	0.0311		1.4393	1.4393		1.4393	1.4393	206.5573	630.0000	836.5573	0.9777	0.0116	864.4415
Landscaping	0.0874	0.0333	2.8921	1.5000e-004		0.0160	0.0160		0.0160	0.0160		5.2076	5.2076	5.0200e-003		5.3332
Total	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0024	0.6334	8.7886	0.0311		1.4393	1.4393		1.4393	1.4393	206.5573	630.0000	836.5573	0.9777	0.0116	864.4415
Landscaping	0.0874	0.0333	2.8921	1.5000e-004		0.0160	0.0160		0.0160	0.0160		5.2076	5.2076	5.0200e-003		5.3332
Total	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Cambria Court - South Coast AQMD Air District, Summer

Cambria Court
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	37.83	1000sqft	2.25	37,380.00	0
Condo/Townhouse	35.00	Dwelling Unit	0.86	85,806.00	100

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2023

Land Use - Lot Acreage and SF vaules were provided by the Project Applicant.

Construction Phase - Non-default schedule. Schedule is based on information provided by the project applicant.

Trips and VMT - Changes to trip values result from extension of default CalEEMod schedule based on information provided by the project applicant.

Demolition - 16,750 SF of existing buildings

Grading - CalEEMod Defaults.

Architectural Coating - Non-default values reflect the breakout of the architectural coating process across 4 smaller construction phases

Vehicle Trips - Trip generates rates are consistient with the transportation analysis.

Vehicle Emission Factors - CalEEMod Defaults.

Woodstoves - no woodfire stoves or fireplaces.

Area Coating - CalEEMod Defaults.

Construction Off-road Equipment Mitigation - Complince with SCAQMD Rule 403. (d

Waste Mitigation - None.

Fleet Mix - CalEEMod Defaults

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	57,919.00	14,479.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblArchitecturalCoating	ConstArea_Residential_Interior	173,757.00	43,439.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	8.00	52.00
tblConstructionPhase	NumDays	18.00	25.00
tblConstructionPhase	NumDays	5.00	33.00
tblFireplaces	NumberWood	1.75	0.00
tblGrading	AcresOfGrading	26.00	20.00
tblGrading	MaterialImported	0.00	2,000.00
tblLandUse	LandUseSquareFeet	37,830.00	37,380.00
tblLandUse	LandUseSquareFeet	35,000.00	85,806.00
tblLandUse	LotAcreage	0.87	2.25
tblLandUse	LotAcreage	2.19	0.86
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblTripsAndVMT	WorkerTripNumber	41.00	20.00
tblVehicleTrips	ST_TR	5.67	9.25
tblVehicleTrips	SU_TR	4.84	7.84
tblVehicleTrips	WD_TR	5.81	9.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	19.8695	55.1538	54.3765	0.0943	18.2675	2.9779	20.3134	9.9840	2.8053	11.8663	0.0000	9,021.5002	9,021.5002	1.9074	0.0000	9,069.1848
2022	15.6595	33.4827	36.3836	0.0640	0.5877	1.7049	2.2926	0.1570	1.6088	1.7659	0.0000	6,118.6700	6,118.6700	1.2678	0.0000	6,150.3656
Maximum	19.8695	55.1538	54.3765	0.0943	18.2675	2.9779	20.3134	9.9840	2.8053	11.8663	0.0000	9,021.5002	9,021.5002	1.9074	0.0000	9,069.1848

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	19.8695	55.1538	54.3765	0.0943	7.2470	2.9779	9.2930	3.9263	2.8053	5.8086	0.0000	9,021.5002	9,021.5002	1.9074	0.0000	9,069.1848
2022	15.6595	33.4827	36.3836	0.0640	0.5877	1.7049	2.2926	0.1570	1.6088	1.7659	0.0000	6,118.6700	6,118.6700	1.2678	0.0000	6,150.3656

Maximum	19.8695	55.1538	54.3765	0.0943	7.2470	2.9779	9.2930	3.9263	2.8053	5.8086	0.0000	9,021.5002	9,021.5002	1.9074	0.0000	9,069.1848
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	58.45	0.00	48.75	59.73	0.00	44.44	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Energy	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Mobile	0.5260	2.3026	7.1478	0.0282	2.4007	0.0192	2.4199	0.6423	0.0178	0.6602		2,877.6020	2,877.6020	0.1254		2,880.7380
Total	3.4968	3.1307	18.8971	0.0606	2.4007	1.4876	3.8883	0.6423	1.4862	2.1285	206.5573	3,718.7540	3,925.3114	1.1121	0.0153	3,957.6808

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Energy	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Mobile	0.5260	2.3026	7.1478	0.0282	2.4007	0.0192	2.4199	0.6423	0.0178	0.6602		2,877.6020	2,877.6020	0.1254		2,880.7380

Total	3.4968	3.1307	18.8971	0.0606	2.4007	1.4876	3.8883	0.6423	1.4862	2.1285	206.5573	3,718.754 0	3,925.3114	1.1121	0.0153	3,957.680 8
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	1/29/2021	5	20	
2	Site Preparation	Site Preparation	2/1/2021	3/17/2021	5	33	
3	Grading	Grading	3/18/2021	5/28/2021	5	52	
4	Paving	Paving	4/19/2021	5/21/2021	5	25	
5	Building Construction 1	Building Construction	6/1/2021	11/29/2021	5	130	
6	Building Construction 2	Building Construction	8/2/2021	1/31/2022	5	131	
7	Building Construction 3	Building Construction	10/1/2021	3/31/2022	5	130	
8	Architectural Coating 1	Architectural Coating	11/1/2021	11/24/2021	5	18	
9	Architectural Coating 2	Architectural Coating	1/3/2022	1/26/2022	5	18	
10	Architectural Coating 3	Architectural Coating	3/1/2022	3/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 2.25

Residential Indoor: 43,439; Residential Outdoor: 57,919; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	7.00	231	0.29
Building Construction 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Cranes	1	7.00	231	0.29
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 2	Welders	1	8.00	46	0.45
Building Construction 3	Cranes	1	7.00	231	0.29
Building Construction 3	Forklifts	3	8.00	89	0.20
Building Construction 3	Generator Sets	1	8.00	84	0.74
Building Construction 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 3	Welders	1	8.00	46	0.45
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Demolition		6	16.00	0.00	76.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading		6	16.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving		8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction		9	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3 Architectural Coating 1		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3		1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8244	0.0000	0.8244	0.1248	0.0000	0.1248			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.8244	1.5513	2.3757	0.1248	1.4411	1.5659		3,747.9449	3,747.9449	1.0549		3,774.3174

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0276	0.9614	0.2035	2.9100e-003	0.0664	2.9800e-003	0.0694	0.0182	2.8500e-003	0.0211		315.2250	315.2250	0.0210		315.7508
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
Total	0.0951	1.0052	0.8063	4.6900e-003	0.2452	4.3000e-003	0.2495	0.0656	4.0600e-003	0.0697		492.4096	492.4096	0.0258		493.0544

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3215	0.0000	0.3215	0.0487	0.0000	0.0487			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.3215	1.5513	1.8729	0.0487	1.4411	1.4898	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
	Hauling	0.0276	0.9614	0.2035	2.9100e-003	0.0664	2.9800e-003	0.0694	0.0182	2.8500e-003	0.0211		315.2250	315.2250	0.0210	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
Total	0.0951	1.0052	0.8063	4.6900e-003	0.2452	4.3000e-003	0.2495	0.0656	4.0600e-003	0.0697		492.4096	492.4096	0.0258		493.0544

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4343	0.0000	6.4343	3.3549	0.0000	3.3549			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.4343	1.1599	7.5942	3.3549	1.0671	4.4221		2,871.9285	2,871.9285	0.9288		2,895.1495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0349	1.2163	0.2575	3.6800e-003	0.0840	3.7700e-003	0.0878	0.0230	3.6100e-003	0.0266		398.8171	398.8171	0.0266		399.4823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
Total	0.1024	1.2601	0.8602	5.4600e-003	0.2629	5.0900e-003	0.2679	0.0705	4.8200e-003	0.0753		576.0016	576.0016	0.0314		576.7859

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					2.5094	0.0000	2.5094	1.3084	0.0000	1.3084			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	2.5094	1.1599	3.6693	1.3084	1.0671	2.3755	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0349	1.2163	0.2575	3.6800e-003	0.0840	3.7700e-003	0.0878	0.0230	3.6100e-003	0.0266		398.8171	398.8171	0.0266		399.4823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
Total	0.1024	1.2601	0.8602	5.4600e-003	0.2629	5.0900e-003	0.2679	0.0705	4.8200e-003	0.0753		576.0016	576.0016	0.0314		576.7859

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3298	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3298	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

3.6 Building Construction 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698

3.7 Building Construction 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698

3.7 Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
Total	0.0896	0.4116	0.7823	3.1500e-003	0.2492	2.2700e-003	0.2514	0.0667	2.1100e-003	0.0688		321.5684	321.5684	0.0117		321.8617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003	108.0237	108.0237	6.3500e-003		108.1823	
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608	213.5448	213.5448	5.3800e-003		213.6794	
Total	0.0896	0.4116	0.7823	3.1500e-003	0.2492	2.2700e-003	0.2514	0.0667	2.1100e-003	0.0688		321.5684	321.5684	0.0117	321.8617	

3.8 Building Construction 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003	108.9754	108.9754	6.5900e-003			109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608	221.4807	221.4807	5.9600e-003			221.6296

Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0111	0.3815	0.0905	1.0200e-003	0.0256	7.7000e-004	0.0264	7.3700e-003	7.3000e-004	8.1000e-003		108.9754	108.9754	6.5900e-003		109.1402
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0956	0.4363	0.8440	3.2400e-003	0.2492	2.4200e-003	0.2516	0.0667	2.2500e-003	0.0689		330.4561	330.4561	0.0126		330.7698

3.8 Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
Total	0.0896	0.4116	0.7823	3.1500e-003	0.2492	2.2700e-003	0.2514	0.0667	2.1100e-003	0.0688		321.5684	321.5684	0.0117		321.8617

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0104	0.3621	0.0856	1.0100e-003	0.0256	6.7000e-004	0.0263	7.3700e-003	6.4000e-004	8.0100e-003		108.0237	108.0237	6.3500e-003		108.1823
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
Total	0.0896	0.4116	0.7823	3.1500e-003	0.2492	2.2700e-003	0.2514	0.0667	2.1100e-003	0.0688		321.5684	321.5684	0.0117		321.8617

3.9 Architectural Coating 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	13.8463	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003			88.6518
Total	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003			88.6518

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193			281.9309
Total	13.8463	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193			281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518
Total	0.0338	0.0219	0.3014	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5923	88.5923	2.3800e-003		88.6518

3.10 Architectural Coating 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	8.2391	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717

Total	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0345					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	8.2391	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717
Total	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717

3.11 Architectural Coating 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	13.8320	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717
Total	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Archit. Coating	13.6274					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	13.8320	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717
Total	0.0317	0.0198	0.2787	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.4179	85.4179	2.1500e-003		85.4717

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5260	2.3026	7.1478	0.0282	2.4007	0.0192	2.4199	0.6423	0.0178	0.6602		2,877.6020	2,877.6020	0.1254		2,880.7380

Unmitigated	0.5260	2.3026	7.1478	0.0282	2.4007	0.0192	2.4199	0.6423	0.0178	0.6602		2,877.602	2,877.6020	0.1254		2,880.738
												0				0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	330.40	323.75	274.40	1,098,443	1,098,443
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	330.40	323.75	274.40	1,098,443	1,098,443

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
	NaturalGas Mitigated	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003
NaturalGas Unmitigated	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1750.53	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.75053	0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0189	0.1613	0.0687	1.0300e-003		0.0130	0.0130		0.0130	0.0130		205.9444	205.9444	3.9500e-003	3.7800e-003	207.1682

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746
Unmitigated	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0024	0.6334	8.7886	0.0311		1.4393	1.4393		1.4393	1.4393	206.5573	630.0000	836.5573	0.9777	0.0116	864.4415
Landscaping	0.0874	0.0333	2.8921	1.5000e-004		0.0160	0.0160		0.0160	0.0160		5.2076	5.2076	5.0200e-003		5.3332
Total	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0024	0.6334	8.7886	0.0311		1.4393	1.4393		1.4393	1.4393	206.5573	630.0000	836.5573	0.9777	0.0116	864.4415
Landscaping	0.0874	0.0333	2.8921	1.5000e-004		0.0160	0.0160		0.0160	0.0160		5.2076	5.2076	5.0200e-003		5.3332
Total	2.9519	0.6668	11.6806	0.0313		1.4553	1.4553		1.4553	1.4553	206.5573	635.2076	841.7650	0.9827	0.0116	869.7746

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Appendix B

Hydrology Report and Sewer Study

**DRAINAGE CONCEPT/
HYDROLOGY STUDY/SUSUMP
FOR**

TENTATIVE TRACT NO. 67200

**CITY OF CARSON
COUNTY OF LOS ANGELES**

Prepared by:



Sikand Engineering Associates
15230 Burbank Boulevard, Suite 100
Van Nuys, California 91411
Telephone: 818-787-8550



N. Hamedani

W.O. 5106-002-01

Date: 01-23-2019

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INTRODUCTION

Purpose of The Study
Project Description
Hydrologic Maps, Criteria & Methodology
Summary

Section 2

EXISTING CONDITION

TC & MODRAT Calculations
Hydrology Map

Section 2

PROPOSED CONDITION

TC & MODRAT Calculations
Hydrology Map

INTRODUCTION

Purpose of the Study

The purpose of this study is to provide criteria for the proposed storm drain design, and analyze the hydrologic factors base on the proposed development of Tentative Tract No. 67200

Project Description

EXISTING CONDITION: The project site is located along the north side of Neptune Avenue and 220th Street intersection in the City of Carson, County of Los Angeles.

The existing drainage pattern is from southwest to the northeast of the project site with an existing sump pump system installed to pump the stormwater to the southerly 220th street.

PROPOSED CONDITION: The development includes multi-family residential developments, open space lots and landscape area. Three biofilter basins has been proposed for the stormwater filtration, and a sump pump system will be installed to pump the stormwater to the same southerly 220th street.

Hydrologic Criteria & Methodology

This report follows the hydrologic criteria and methodology set forth by Los Angeles County Department of Public Works, as explained in its "Hydrology Manual", "Sedimentation Manual", and "Development Planning for Storm Water Management (SUSMP) Manual".

The following are the criteria used in the calculations:

- Design Storm Frequency: 25-year.
- Soil Type Number = 013
- Basin Name = Los Angeles River
- DPA Zones = 8
- % Imperviousness:
 - 42% for undeveloped areas,
 - 82% for developed areas.

Preliminary alignments and layout of the drainage device, swales, biofilter basins, and storm drain system are shown on the Proposed Hydrology Map. Final details of the storm drain system, biofilter basins, and other SUSMP devices will be provided in the final Storm Drain Plans and Grading Plans to the satisfaction of the Los Angeles County Department of Public Works.

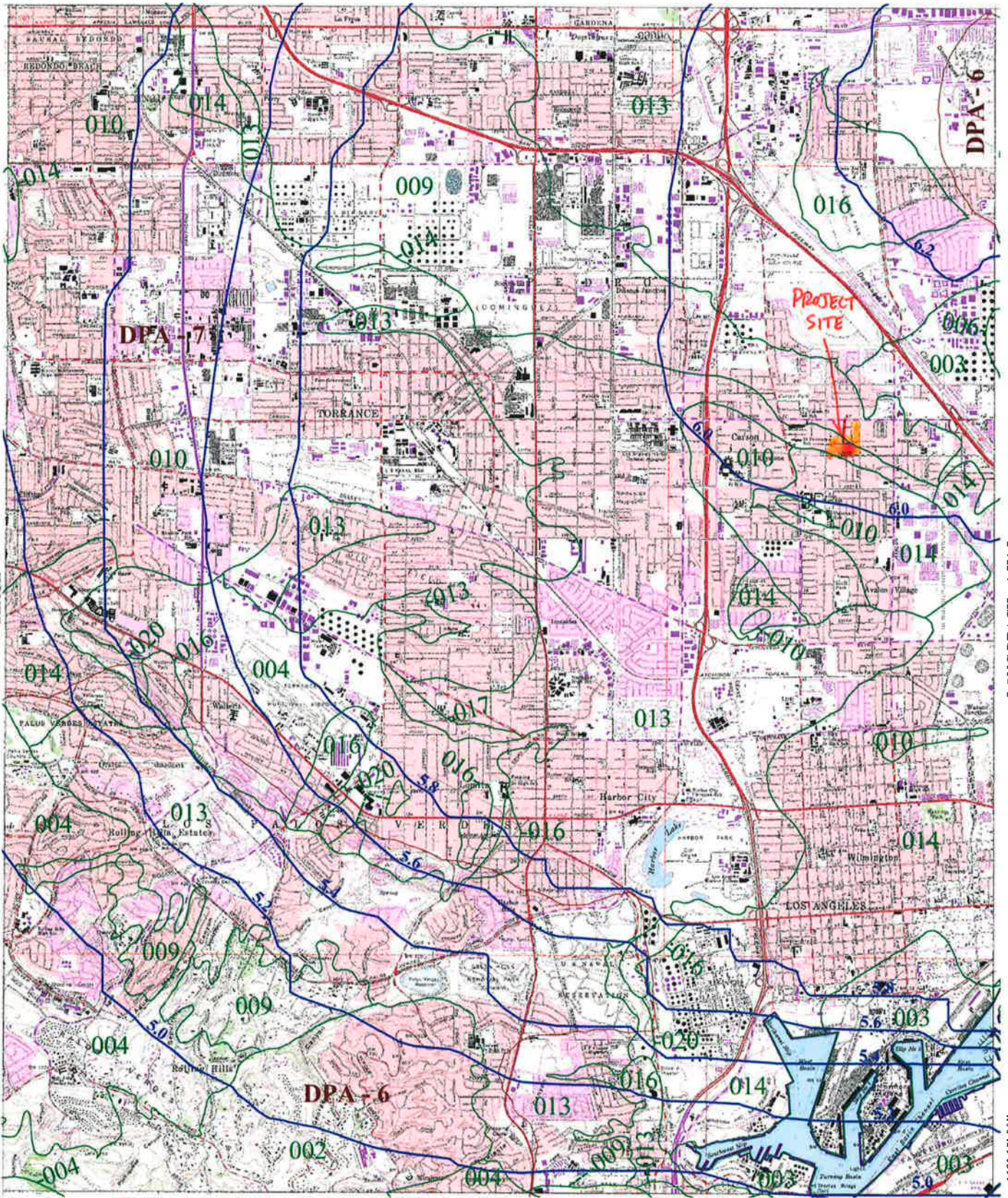
33° 52' 30"

INGLEWOOD 1-H1.8

-118° 22' 30"

REDONDO BEACH 1-H1.3

LONG BEACH 1-H1.5



-118° 15' 00"

SAN PEDRO 1-H1.2

33° 45' 00"



- 016 SOIL CLASSIFICATION AREA
- 7.2 INCHES OF RAINFALL
- DPA - 6 DEBRIS POTENTIAL AREA



25-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.878
 10-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.714

TORRANCE 50-YEAR 24-HOUR ISOHYET

1-H1.4



EXISTING CONDITION

Peak Flow Hydrologic Analysis

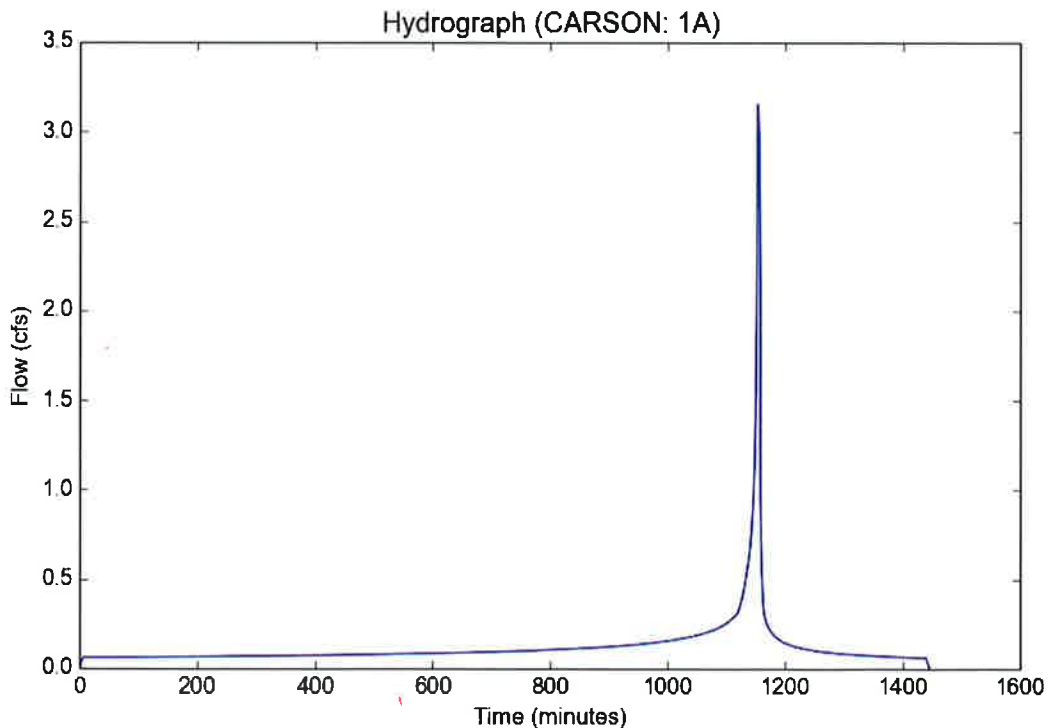
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Input Parameters

Project Name	CARSON
Subarea ID	1A
Area (ac)	1.2
Flow Path Length (ft)	267.0
Flow Path Slope (vft/hft)	0.0051
50-yr Rainfall Depth (in)	6.0
Percent Impervious	0.42
Soil Type	13
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.268
Peak Intensity (in/hr)	2.8849
Undeveloped Runoff Coefficient (Cu)	0.9185
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	3.1157
Burned Peak Flow Rate (cfs)	3.1157
24-Hr Clear Runoff Volume (ac-ft)	0.2501
24-Hr Clear Runoff Volume (cu-ft)	10894.0865



Peak Flow Hydrologic Analysis

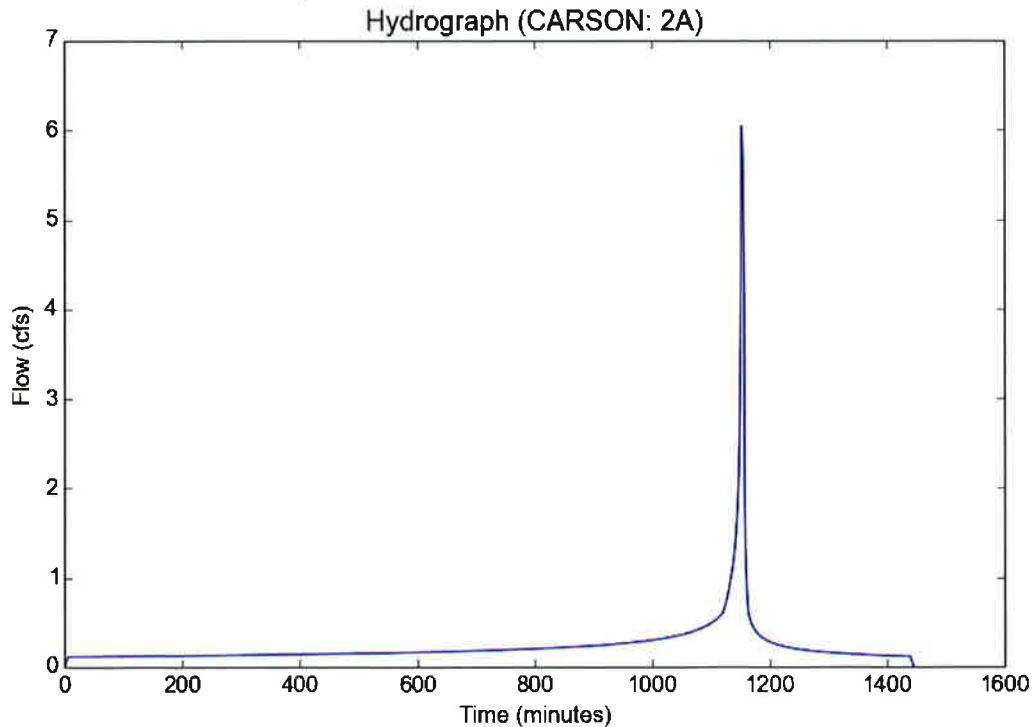
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Version: HydroCalc 1.0.2

Input Parameters

Project Name	CARSON
Subarea ID	2A
Area (ac)	2.3
Flow Path Length (ft)	270.0
Flow Path Slope (vft/hft)	0.0059
50-yr Rainfall Depth (in)	6.0
Percent Impervious	0.42
Soil Type	13
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.268
Peak Intensity (in/hr)	2.8849
Undeveloped Runoff Coefficient (Cu)	0.9185
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	5.9718
Burned Peak Flow Rate (cfs)	5.9718
24-Hr Clear Runoff Volume (ac-ft)	0.4793
24-Hr Clear Runoff Volume (cu-ft)	20880.3324



006 1 1A 13 42 1.2 6A222 270 00519
006 1 2A 13 42 2.3 6A22

G1
2 2

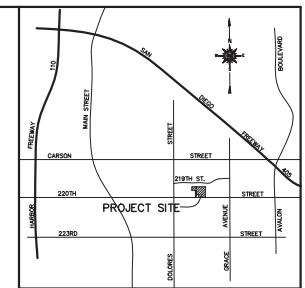
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

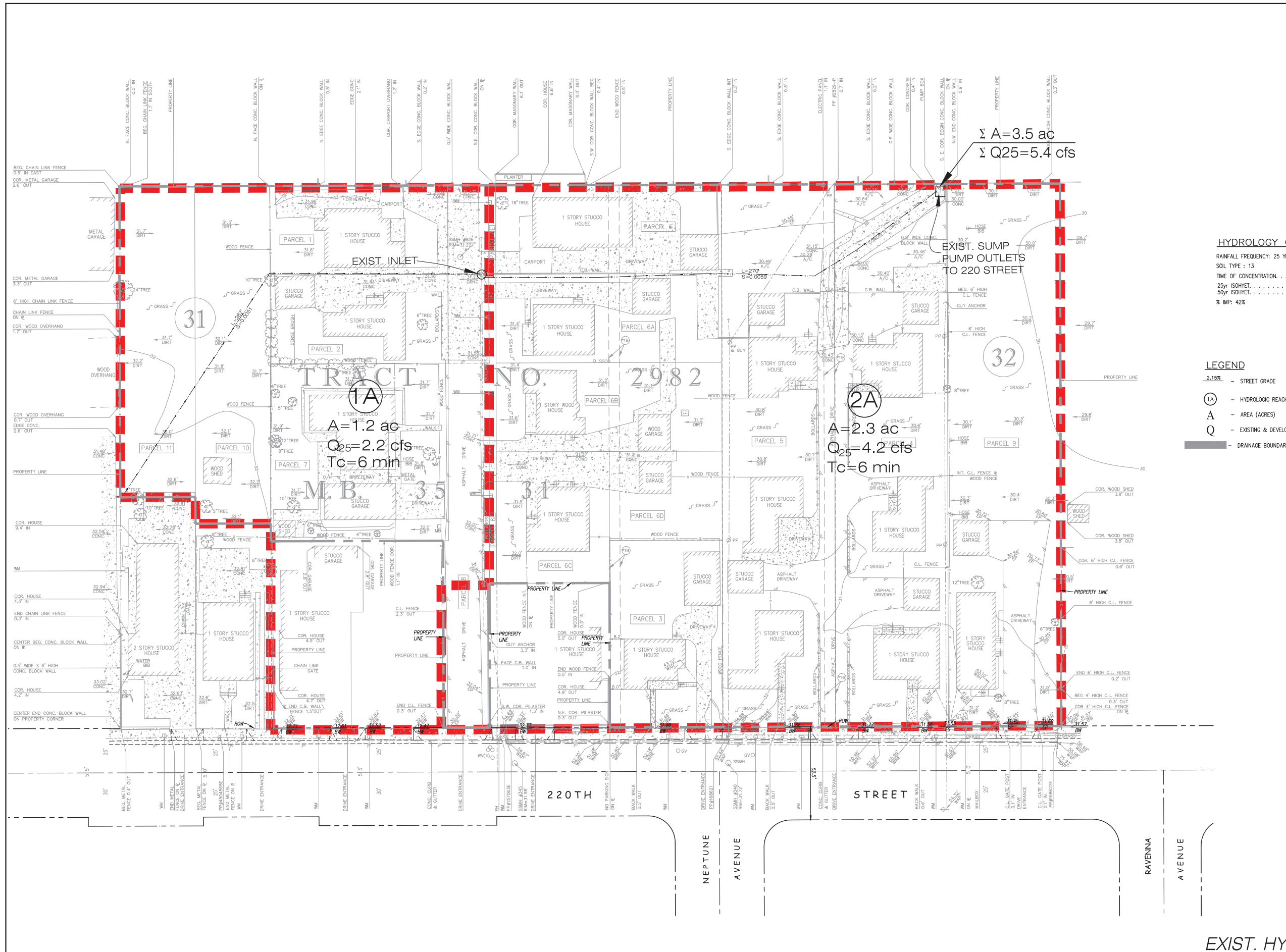
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MODIFIED RATIONAL METHOD HYDROLOGY - STORM YEAR = 25 SOIL DATA FILE: X:\engineering\Programs\CIVILD\lar_soilx_71.dat
Carson, Exist 25 YR Frequency STORM DAY 4

LOCATION	SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	RAIN ZONE	PCT IMPV
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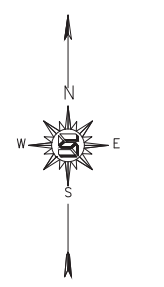


VICINITY MAP
NOT TO SCALE



HYDROLOGY CRITERIA
 RAINFALL FREQUENCY: 25 YR AND 50 YR
 SOIL TYPE : 13
 TIME OF CONCENTRATION: 5 MINUTE OR AS NOTED
 25yr ISOHYET. 5.3"
 50yr ISOHYET. 6.0"
 % IMP: 42%

LEGEND
 2.15% - STREET GRADE
 (1A) - HYDROLOGIC REACH
 A - AREA (ACRES)
 Q - EXISTING & DEVELOPED 25 YR FLOW QUANTITIES (CFS)
 - DRAINAGE BOUNDARY



SCALE: 1" = 20'

EXIST. HYDROLOGY MAP

HYDROLOGY STUDY FOR TRACT NO. 67200
 FOR CONDOMINIUM PURPOSES
 IN THE UNINCORPORATED TERRITORY OF THE
 COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

OWNER:
DON WILSON BUILDERS
 23705 CRENSHAW BLVD. SUITE 200
 TORRANCE, CA. 90510-3188
 ATTN: RICHARD WELTER (310) 539-8462



DATE	APP'D BY	REVISION	DATE	E.G. NO.	SHEET
01-18-19			01-18-19	5106-002-01	1 of 1

SIKAND
 Engineering | Planning | Surveying
 15230 Burbank Blvd.
 Van Nuys, CA 91411
 Tel: (818) 787-8550
 Fax: (818) 901-7451
 info@sikand.com

PROPOSED CONDITION

Peak Flow Hydrologic Analysis

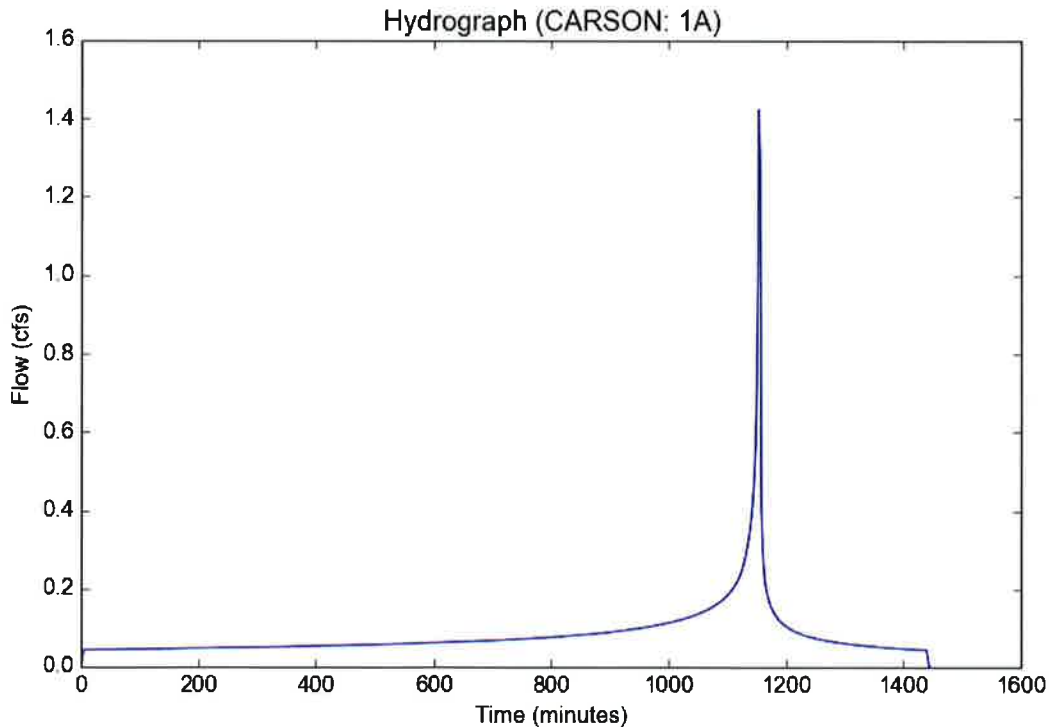
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Version: HydroCalc 1.0.2

Input Parameters

Project Name	CARSON
Subarea ID	1A
Area (ac)	0.5
Flow Path Length (ft)	144.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.0
Percent Impervious	0.82
Soil Type	13
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.268
Peak Intensity (in/hr)	3.143
Undeveloped Runoff Coefficient (Cu)	0.9328
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	1.4144
Burned Peak Flow Rate (cfs)	1.4144
24-Hr Clear Runoff Volume (ac-ft)	0.1675
24-Hr Clear Runoff Volume (cu-ft)	7294.2185



Peak Flow Hydrologic Analysis

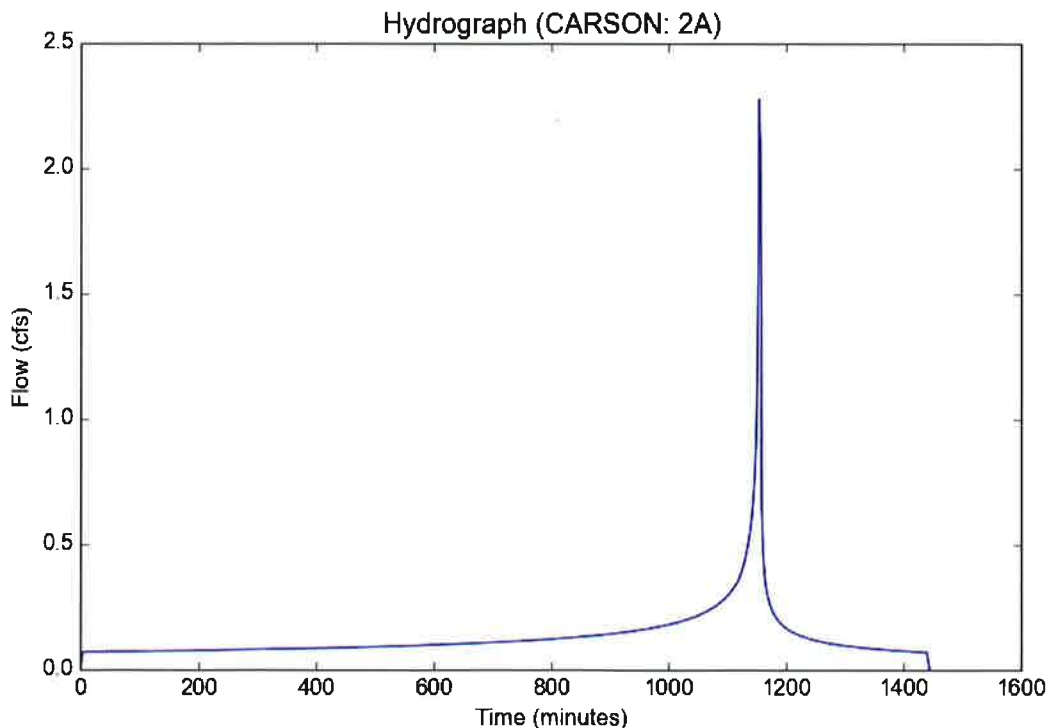
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Version: HydroCalc 1.0.2

Input Parameters

Project Name	CARSON
Subarea ID	2A
Area (ac)	0.8
Flow Path Length (ft)	150.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.0
Percent Impervious	0.82
Soil Type	13
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.268
Peak Intensity (in/hr)	3.143
Undeveloped Runoff Coefficient (Cu)	0.9328
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	2.263
Burned Peak Flow Rate (cfs)	2.263
24-Hr Clear Runoff Volume (ac-ft)	0.2679
24-Hr Clear Runoff Volume (cu-ft)	11670.7496



Peak Flow Hydrologic Analysis

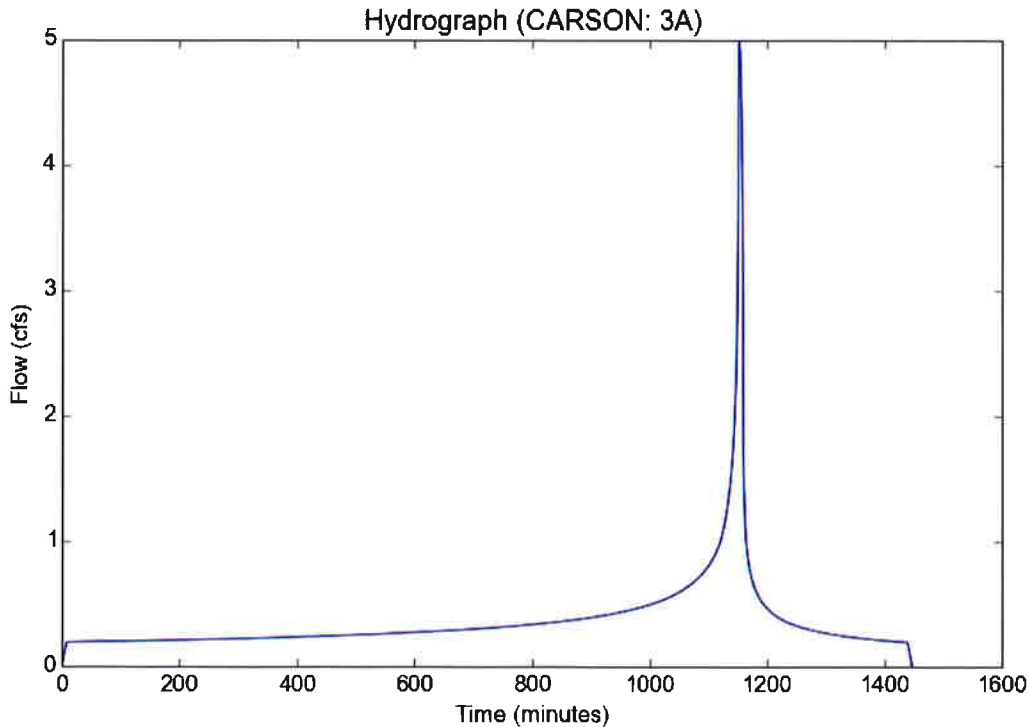
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Input Parameters

Project Name	CARSON
Subarea ID	3A
Area (ac)	2.2
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.0
Percent Impervious	0.82
Soil Type	13
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.268
Peak Intensity (in/hr)	2.5201
Undeveloped Runoff Coefficient (Cu)	0.8923
Developed Runoff Coefficient (Cd)	0.8986
Time of Concentration (min)	8.0
Clear Peak Flow Rate (cfs)	4.9821
Burned Peak Flow Rate (cfs)	4.9821
24-Hr Clear Runoff Volume (ac-ft)	0.7368
24-Hr Clear Runoff Volume (cu-ft)	32095.4392



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2 2

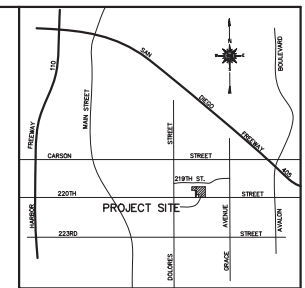
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

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MODIFIED RATIONAL METHOD HYDROLOGY - STORM YEAR = 25 SOIL DATA FILE: X:\engineering\Programs\CIVILD\lar_soilx_71.dat

Carson, Prop 25 YR Frequency		STORM DAY 4													
LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	RAIN ZONE	PCT IMPV
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1	2A	.8	1.65	1.3	2.66	4	325.	.00500	2.00	.00	0.	13	5	A22	.82
1	3A	2.2	3.53	3.5	5.98	0	0.	.00000	.00	.00	0.	13	8	A22	.82



LEGEND

- 2.15% - STREET GRADE
- (IA) - HYDROLOGIC REACH
- A - AREA (ACRES)
- Q - EXISTING & DEVELOPED 25 YR FLOW QUANTITIES (CFS)
- 1 - PRIVATELY MAINTAINED STORM DRAIN PER DETAILS ON GRADING PLAN
- 2 - STORM DRAIN & EASEMENT TO LACFCD
- 3 - DESILTING BASIN & EASEMENT TO LACFCD
- 4 - CONCRETE DRAINAGE DEWISE PER DETAILS ON GRADING PLAN
- - - - - DRAINAGE BOUNDARY

BEST MANAGEMENT PRACTICES (BMP'S) LIST

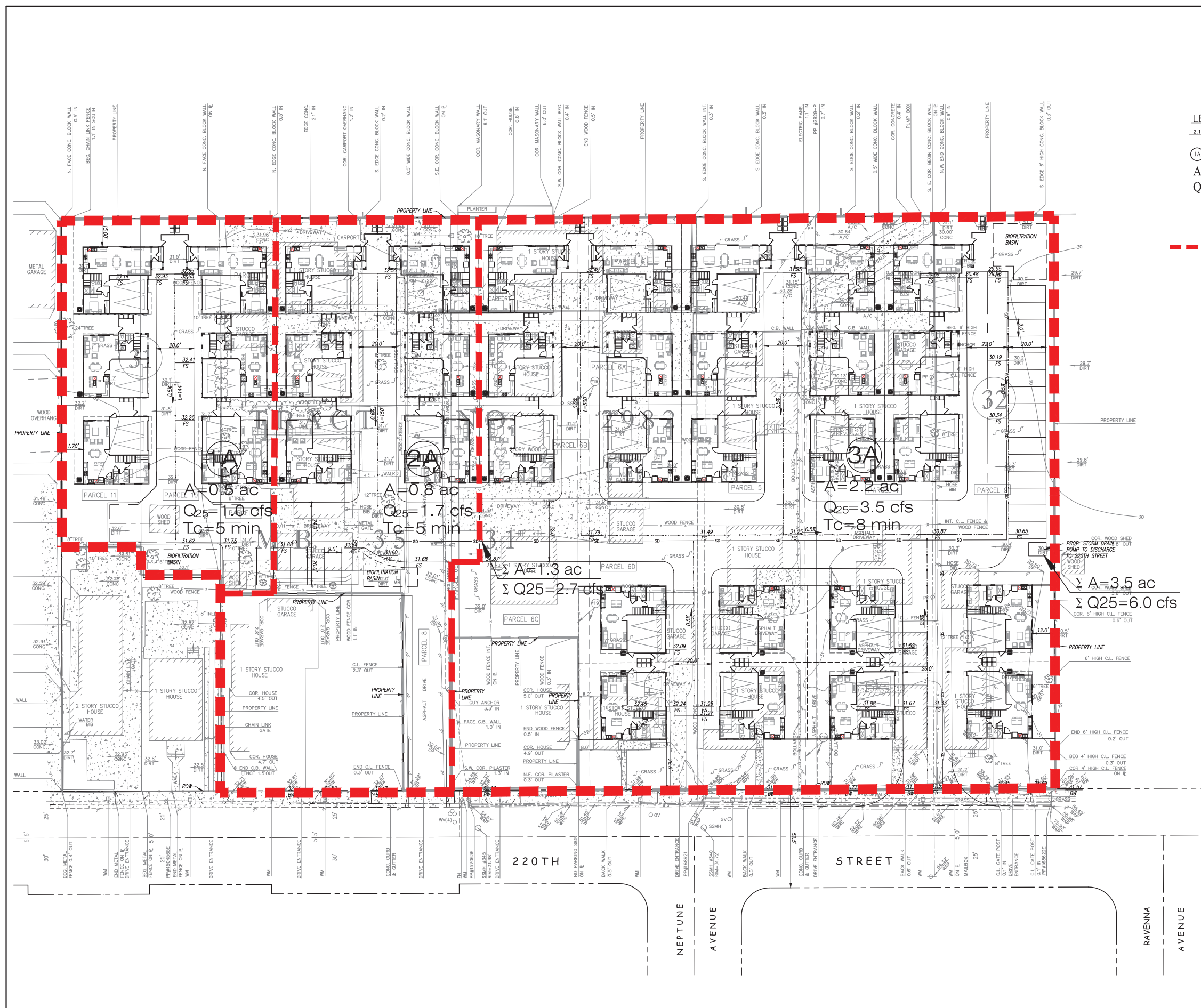
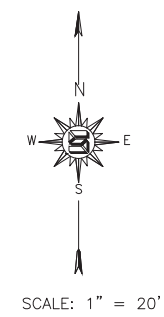
1. LOT RUNOFF TO BE INFILTRATED FROM THE GRADED PAD AREAS THROUGH ONSITE PERVIOUS SOILS
2. VEGETATE SLOPES WITH NATIVE OR DROUGHT TOLERANT VEGETATION TO MINIMIZE EROSION
3. RIP RAP AT THE OUTLETS OF STORM DRAINS, CULVERTS, CONDUITS TO MINIMIZE EROSION
4. CALCULATIONS TO SIZE PERMANENT BMP DEWISE UNITS TO BE PROVIDED WITH HYDROLOGY MAP APPROVAL
5. RUNOFF FROM PUBLIC STREETS SHALL BE COLLECTED INTO CATCH BASINS WITH PIPE OUTLETS TO THE PROPOSED PERMANENT BMP DEWISE PRIOR TO OUTLET DOWNSTREAM, SUBJECT TO THE SATISFACTION OF THE DEPT. OF PUBLIC WORKS.
6. H.O.A. OR PRIVATE MAINTAINED BIOFILTER BASINS AS APPROVED BY DEPT. OF PUBLIC WORKS FOR CONDO SITES.
7. ALL CATCH BASINS AND INLETS SHALL BE STENCILED WITH "WARNING: DRAIN TO OCEAN" NOTES & SYMBOLS PER NPDES BMP STANDARDS

DRAINAGE CONCEPT NOTES

1. STORM DRAIN ALIGNMENTS SHOWN ARE NOT NECESSARILY APPROVED.
2. COMPLY WITH ALL STREET DRAINAGE REQUIREMENTS TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS.
3. DEDICATE THE NECESSARY EASEMENTS FOR THE STORM DRAIN SYSTEM TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS.
4. PROVIDE VEHICULAR ACCESS TO ALL INLETS AND OUTLETS TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS.
5. APPROVAL OF THE DRAINAGE CONCEPT DOES NOT CONSTITUTE DETERMINATION THAT THE OFFSITE IMPROVEMENTS ARE REQUIRED WITHIN THE MEANING OF GOV'T CODE SECTION 66462.5 (EXCEPT AS NOTED).
6. CROSS LOTS DRAINAGE WILL REQUIRE "DRAINAGE ACCEPTANCE LETTERS".

HYDROLOGY CRITERIA

RAINFALL FREQUENCY: 25 YR AND 50 YR
 SOIL TYPE : 13
 TIME OF CONCENTRATION 5 MINUTE OR AS NOTED
 25yr ISOHYET. 5.3"
 50yr ISOHYET. 6.0"
 % IMP: 82%



PROPOSED HYDROLOGY MAP

OWNER:
DON WILSON BUILDERS
 23705 CRENSHAW BLVD. SUITE 200
 TORRANCE, CA. 90510-3188
 ATTN: RICHARD WELTER (310) 539-8462



DATE	BY	APP

SCALE: 1"=20'

DATE: 01-22-19

BY: SIKAND

SHEET: 1 OF 1

SIKAND
 Engineering | Planning | Surveying

15230 Burbank Blvd.
 Van Nuys, CA 91411
 Tel: (818) 787-8550
 Fax: (818) 901-7451
 info@sikand.com

HYDROLOGY STUDY FOR TRACT NO. 67200
FOR CONDOMINIUM PURPOSES
 IN THE UNINCORPORATED TERRITORY OF THE
 COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

SEWER
AREA STUDY
PC NO. 07-1AS CRSN
TG 764 D7

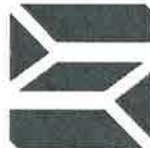
FOR:

Tentative Tract No. 067200

PREPARED FOR:

DON WILSON BUILDERS
23705 Crenshaw Blvd., Ste. 200
Torrance, CA 90505
Attention: Richard Welter

PREPARED BY:



SIKAND ENGINEERING ASSOCIATES
15230 Burbank Boulevard, Suite 100
Van Nuys, California 91411
818/787-8550 Fax 818/901-7451

April 2, 2018





Craig Young

W.O. 5106-002

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- I. Introduction
- II. Site Description
- III. Sewer Line Capacity Analysis
- IV. Conclusion
- V. Exhibits
- VI. Flow Measurements SMD Map No. 1705 MH 629
- VII. Pocket 1- Sewer Area Study Map
- VIII. Pocket 2- Tentative Map, Existing Sewer Plans

I. Introduction

The purpose of this Sewer Area Study is to determine sewage flow rates and to verify the capacity of existing sewer system for proposed Tentative Tract No. 67200 in The City of Carson, County of Los Angeles.

II. Site Description

The project site is fronting 220th Street between Grace Avenue and Dolores Street. The site comprises 15 existing homes which are going to tear down and construct 35 single family units and a passive park (see attached TG P764 for location).

III. Sewer Line Capacity Analysis

The existing sewer lines were analyzed per County Standard S-C4 for a maximum depth at ½ full.

The capacity of the existing line was obtained by using Kutter's Formula with "n=0.013" as shown in the flow diagram for the design of circular sanitary sewer system (see attached S-4 chart).

The tributary sewer flow rate (Q) for the studied sewer lines are determined based on County Standards as follows:

$$Q = (Z)(A)$$

A = Tributary Area (Acre)

Z = Zoning Coefficients (see attachment in Exhibits)
















IV. Conclusion







The half full capacity for the existing 8" sewer line at 0.32% slope is 0.311 cfs which is less than peak flow rate of 0.5653 cfs as determined by the sewer area study.

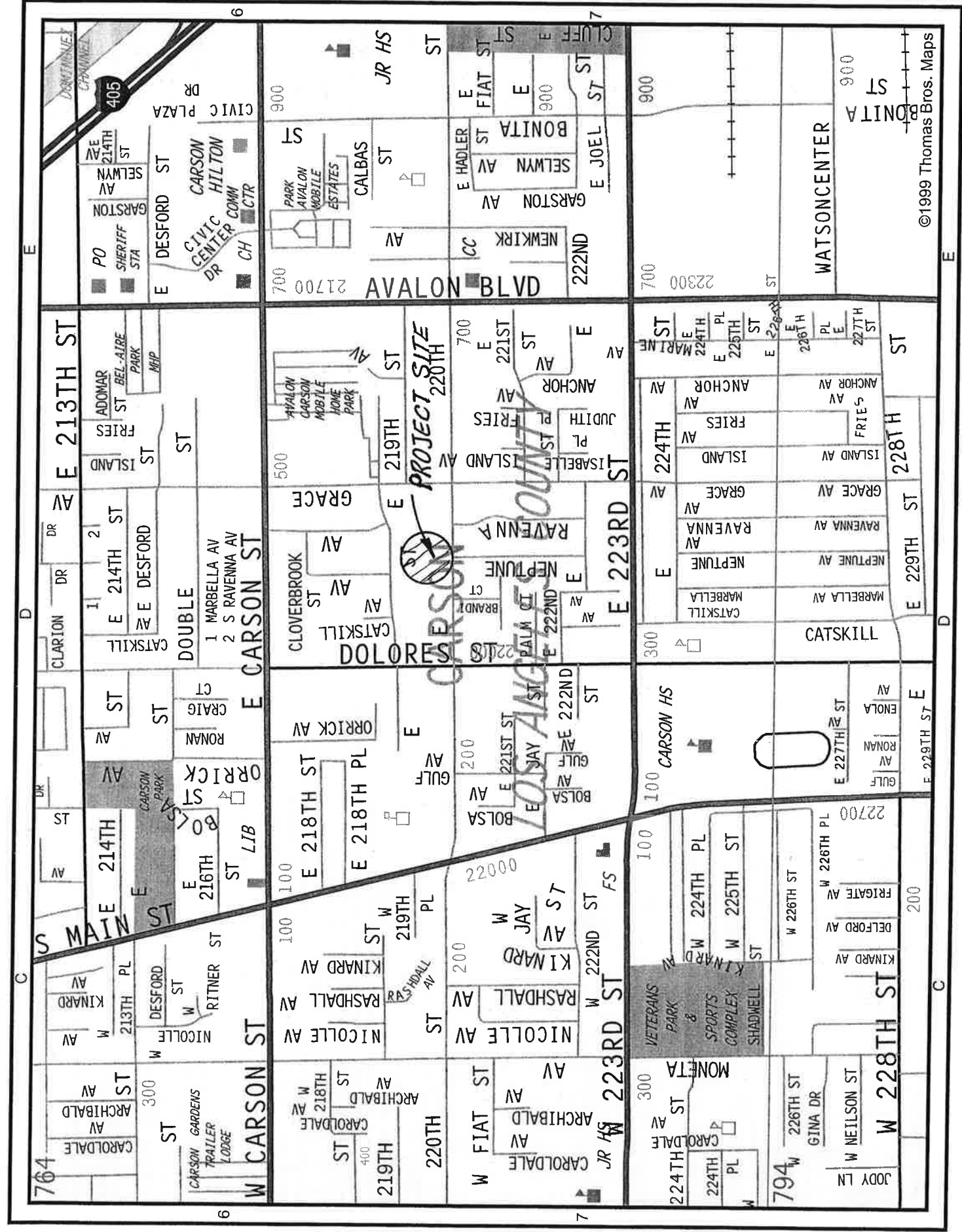
The proposed project will add 20 homes (35 new homes less 15 existing homes) to the sewer system which increases the flow by 0.020 cfs using a coefficient of 0.001 cfs per unit.

A flow test was conducted at manhole number 629 to measure the existing flow rates. The result for June 24th was chosen based on the maximum depth of 2.79 inch, and the corresponding flow rate of 4495.97 gph which equals to 0.167 cfs. This assumption is conservative because all the existing areas A1-A15 come to sewer line downstream of manhole number 651. All analyzed reaches have adequate capacity to include additional flow from the proposed site. According to the current policies, no mitigation measures will be required for this project

Zoning Legend

-  RESIDENTIAL, AGRICULTURAL
-  RESIDENTIAL, SINGLE FAMILY
-  RESIDENTIAL, MULTI-FAMILY, 8 UNITS PER ACRE
-  RESIDENTIAL, MULTI-FAMILY, 10-12 UNITS PER ACRE
-  RESIDENTIAL, MULTI-FAMILY, 14-25 UNITS PER ACRE
-  MIXED USE - CARSON STREET
-  COMMERCIAL, NEIGHBORHOOD
-  COMMERCIAL, AUTOMOTIVE
-  COMMERCIAL, GENERAL
-  COMMERCIAL, REGIONAL
-  MANUFACTURING, LIGHT
-  MANUFACTURING, HEAVY
-  OPEN SPACE
-  SPECIAL USE
-  SPECIFIC PLAN

-  REDEVELOPMENT AREA 1
-  MERGED AND AMENDED AREA
-  REDEVELOPMENT AREA 4
-  ORL OVERLAY
-  MUR OVERLAY
-  D OVERLAY



LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

AREA STUDY

An area study must be made for all private contract sewer projects. See attached sample. The area study must include the following items:

1. Area being served - In Acres
2. Determined Tributary area to main line being designed (incl. areas of future devel.)- In Acres
3. Existing and Land Use Zoning
4. Anticipated Sewer Discharge in cfs of total area based on zoning, and/or heavy water users
5. Existing or proposed utilities if in conflict
6. Existing and proposed sewers showing pipe size and grade leading up to the trunk line in order for you to evaluate the impact of your proposed development on the existing system
7. Direction of sewer flow
8. Contour lines
9. Scale not to be less than 1"=600'
10. North arrow pointing up or to the left

ZONING COEFFICIENTS

<u>ZONE</u>	<u>COEFFICIENT (cfs/Acre)</u>
Agriculture	0.001
Residential	
R-1	0.004
R-2	0.008
R-3	0.012
R-4	0.016 *
Commercial	
C-1 through C-4	0.015 *
Heavy Industrial	
M-1 through M-4	0.021 *

* Individual building, commercial or industrial plant capacities shall be the determining factor when they exceed the coefficients shown.

The coefficient to be used for any zoned areas not listed will be determined by the County based upon the intended development and use.

The County shall determine which of the coefficients or combination of coefficients shall be used for design as determined by the established or proposed zoning in the study area. Any modifications to these coefficients due to topography, development, or hazard areas, shall be approved by the Department of Public Works.

BASIS OF FLOW COMPUTATION				AVER. FLOW COEFF.	PEAK FLOW COEFF.*
AREA & LAND USE				cfs/acre	cfs/acre
<u>Residential</u>					
<u>Density Type</u>	<u>Average Area Per Dwelling</u>	<u>Dwellings per Acre</u>	<u>Persons per Acre</u>		
Rural 1	5 acres	.2	0.7	.00008	.0002
Rural 2	1½ acres	.8	2.7	.0003	.00075
High Desert	1 acre	1.0	3.3	.0004	.0010
Very Low	20,000 sq.ft.	1.7	6	.0006	.0015
Low (R-1)	7,000 sq.ft.	4.9	16	.002	.005
Medium (R-2)	3,200 sq.ft.	10.8	25	.0048	.012
Medium High (R-3)	1,800 sq.ft.	18.8	38	.006	.015
High (R-4)	1,400 sq.ft.	30.0	52	.0092	.023
Commercial				.006	.015
Industrial				.0084	.021
RESIDENTIAL UNIT**				cfs/unit	cfs/unit
1 & 2 bedroom units				.00032	.0008
3 & 4 bedroom units <i>> avg.</i>				.00044	.0009
Mobile Home Parks				.0002	.0005
POPULATION***				cfs/capita	cfs/capita
Resident Population				.00012	.0003

*Based on Peak Factor of 2.5, for use up to a peak flow rate of 5.0 cfs. For larger flows, use a lower peak factor per the Average Flow-Peak Flow graph.

**These coefficients are based on the following average flows:
 1 & 2 bedroom - 200 g.p.d./unit; 3 & 4 bedroom - 285 g.p.d./unit; and
 Mobile Home - 130 g.p.d./unit

***This coefficient based on 80 g.p.d./capita.

USE OF FLOW COEFFICIENTS

For general studies based on zoning, use the area coefficients listed. If known densities vary from this table, adjust the coefficient accordingly. When estimating flows from developments where number and size of residential units are known, use Residential Unit coefficients. For more of a broad range study based on population, use Population coefficient.

July 25, 2007

TO: Suk Chong
Land Development Division

Attention Imelda Ng

For

FROM:

Nicholas A. Agbobu
Nicholas A. Agbobu

Sewer Maintenance Division

**FLOW MEASUREMENTS
SMD MAP NO. 1705 MH 629
CITY OF CARSON**

As requested, we are sending you the flow measurement for the above location. Please see attached.

If you have any questions, please contact May Hong at (626) 300-3322.

Attach.

AS AGREED WITH
SEWER MAINTENANCE
DIVISION

- PLEASE DISREGARD THE FLOW DATA OBTAINED ON JUNE 22, AND
USE THE MAX. DEPTH OR MAX. FLOW, WHICHEVER GOVERNS.

IMELDA.

*Rec'd
7/26/07*

=====
Program settings

Site Id: 00000884
Description: c-1705 m/h 629

Program settings

PGM:
910 F.M. VERSION: 7.61

S/N: V6D
SITE ID: 00000884
LOCATION:
c-1705 m/h 629
LEVEL SENSOR:
SUBMERGED LEVEL A
TYPE: 0-10 FT
CAL OFFSET: 508 cts
CAL GAIN: 6.99 cts/cm
USER OFFSET: 0.00 cm
VELOCITY SENSOR:
VELOCITY A
AREA VELOCITY
SHAPE: CIRCULAR PIPE
DIAMETER: 8.00 in.
SAMPLER PACING: OFF
FLOW UNITS: gph
TOTAL FLOW UNITS: gal
RS232 BAUD RATE: 19200
DAYS TO LOG: 54.0
INSTALLED MEMORY: 128

--INPUT-----UNITS--LOGGING--INTV-
FLOW gph ON 12min
LEVEL 1 in. ON 12min
VELOCITY 1 fps ON 12min
CHANNEL 5 volts ON 12min

MEMORY MODE: WRAP
DONE

=====
Primary Device

Site Id: 00000884
Description: c-1705 m/h 629

Primary Device 1: Area-Velocity (circular pipe)
Diameter: 8.00 in.

=====
Day Report - 22/JUN/07
Friday

Site Id: 00000884
Description: c-1705 m/h 629

Level Flow 1
(in.) (gph)
Minimum: 0.629 422.341
15:48 15:48
Maximum: 3.290 10433.063

17:00 17:00
Average: 1.376 2063.467

Total Flow1: 25.174 (gal) x1000

=====
Day Report - 23/JUN/07
Saturday

Site Id: 00000884
Description: c-1705 m/h 629

=====
Level Flow 1
(in.) (gph)
Minimum: 0.355 194.958
04:12 04:12
Maximum: 2.034 4445.251
12:12 09:24
Average: 1.232 1981.156

Total Flow1: 47.547 (gal) x1000

=====
Day Report - 24/JUN/07
Sunday

Site Id: 00000884
Description: c-1705 m/h 629

=====
Level Flow 1
(in.) (gph)
Minimum: 0.537 270.434
00:48 02:24
Maximum: MAX → 2.787 4495.966
23:36 22:48
Average: 1.458 2345.285

Total Flow1: 56.286 (gal) x1000

=====
Day Report - 25/JUN/07
Monday

Site Id: 00000884
Description: c-1705 m/h 629

=====
Level Flow 1
(in.) (gph)
Minimum: 0.837 440.063
02:24 03:36
Maximum: 2.337 4579.743
15:48 15:48
Average: 1.488 2188.308

Total Flow1: 52.519 (gal) x1000

=====
Day Report - 26/JUN/07
Tuesday

Site Id: 00000884

Description: c-1705 m/h 629

	Level (in.)	Flow 1 (gph)
Minimum:	0.772 03:36	482.439 03:36
Maximum:	2.103 19:36	4003.145 20:12
Average:	1.477	2246.929
Total Flow1:	53.926 (gal) x1000	

=====
Day Report - 27/JUN/07
Wednesday

Site Id: 00000884
Description: c-1705 m/h 629

	Level (in.)	Flow 1 (gph)
Minimum:	0.650 03:00	359.746 02:48
Maximum:	2.154 16:24	4505.285 21:12
Average:	1.488	2310.677
Total Flow1:	55.456 (gal) x1000	

=====
Day Report - 28/JUN/07
Thursday

Site Id: 00000884
Description: c-1705 m/h 629

	Level (in.)	Flow 1 (gph)
Minimum:	0.402 03:36	55.941 03:36
Maximum:	2.135 22:24	4861.429 21:00
Average:	1.355	2119.655
Total Flow1:	50.871 (gal) x1000	

=====
Day Report - 29/JUN/07
Friday

Site Id: 00000884
Description: c-1705 m/h 629

	Level (in.)	Flow 1 (gph)
Minimum:	0.501 03:48	247.909 04:00
Maximum:	2.560	5135.190

07:36 07:36

Average: 1.568 2480.318

Total Flow1: 29.763 (gal) x1000

=====
22/JUN/07 - 29/JUN/07

Site Id: 00000884
Description: c-1705 m/h 629

Level Flow 1
(in.) (gph)

Minimum:	0.355	55.941
	04:12	03:36
	JUN 23	JUN 28
Maximum:	3.290	10433.063
	17:00	17:00
	JUN 22	JUN 22
Average:	1.424	2208.955
Total Flow1:	371.541 (gal) x1000	

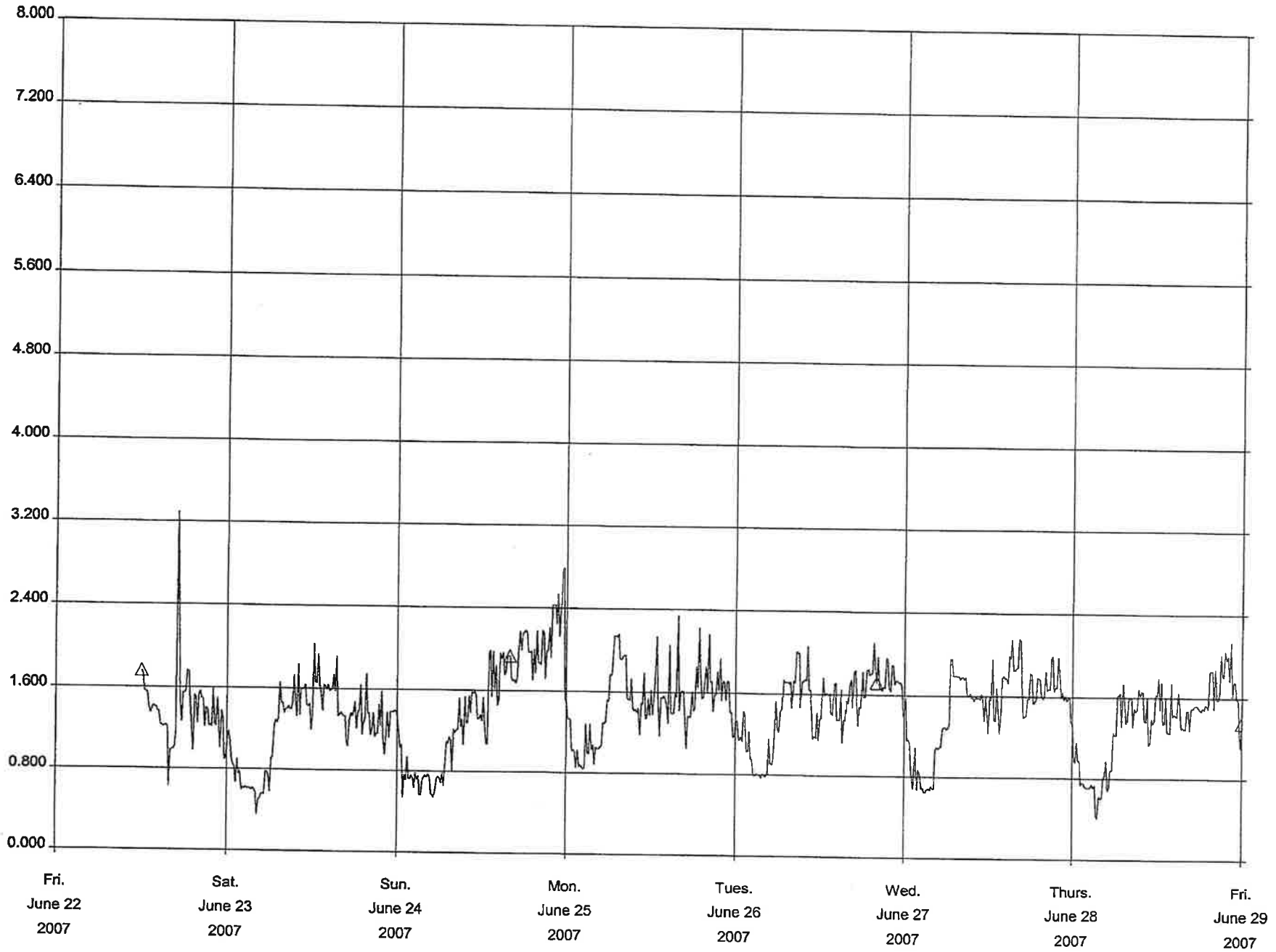
□

c-1705 m/h 629

Site Id: 00000884 File name: 06291616.V6D

Graph span: 1 week

△ Level (in.)

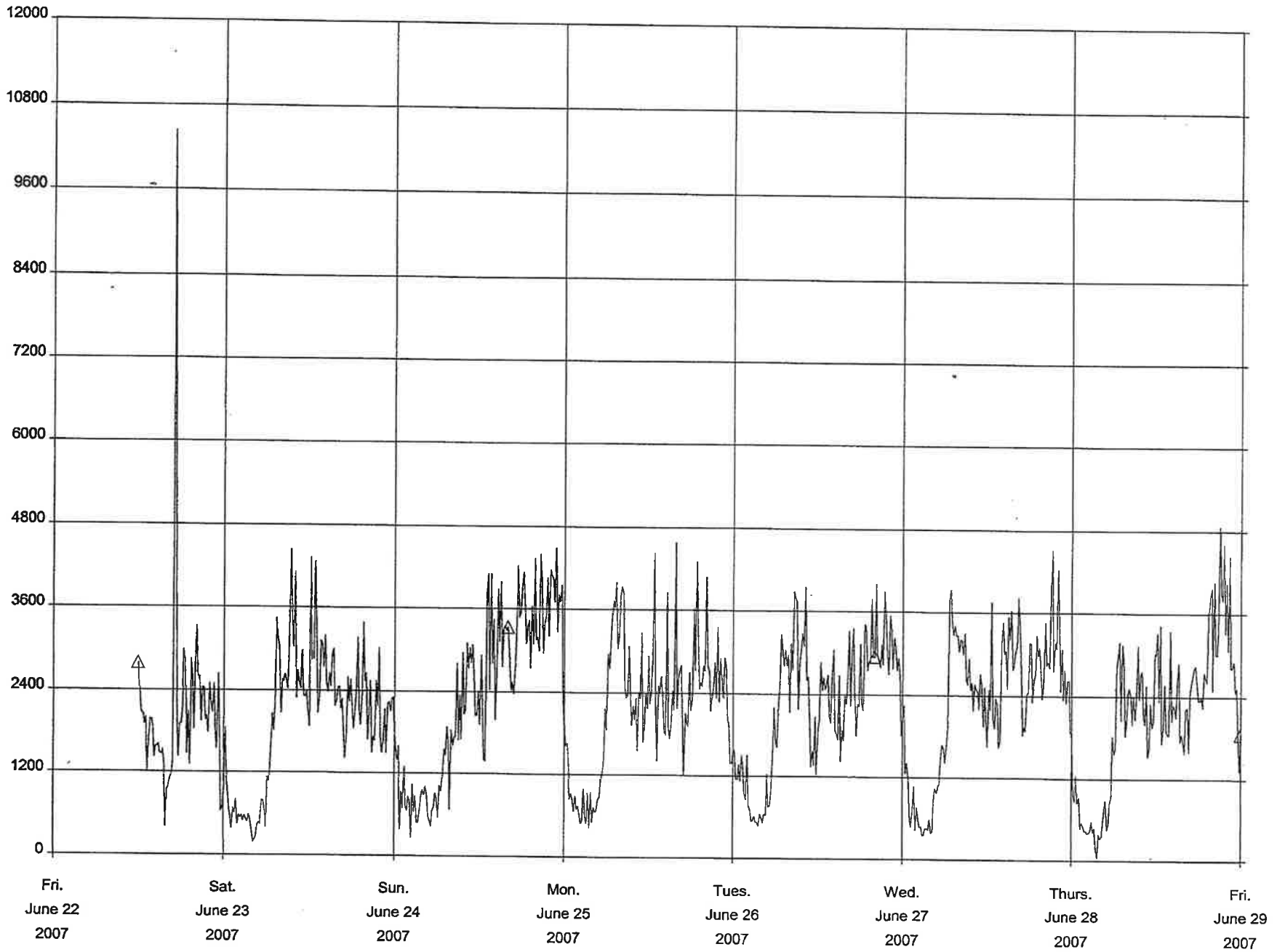


c-1705 m/h 629

Site Id: 00000884 File name: 06291616.V6D

Graph span: 1 week

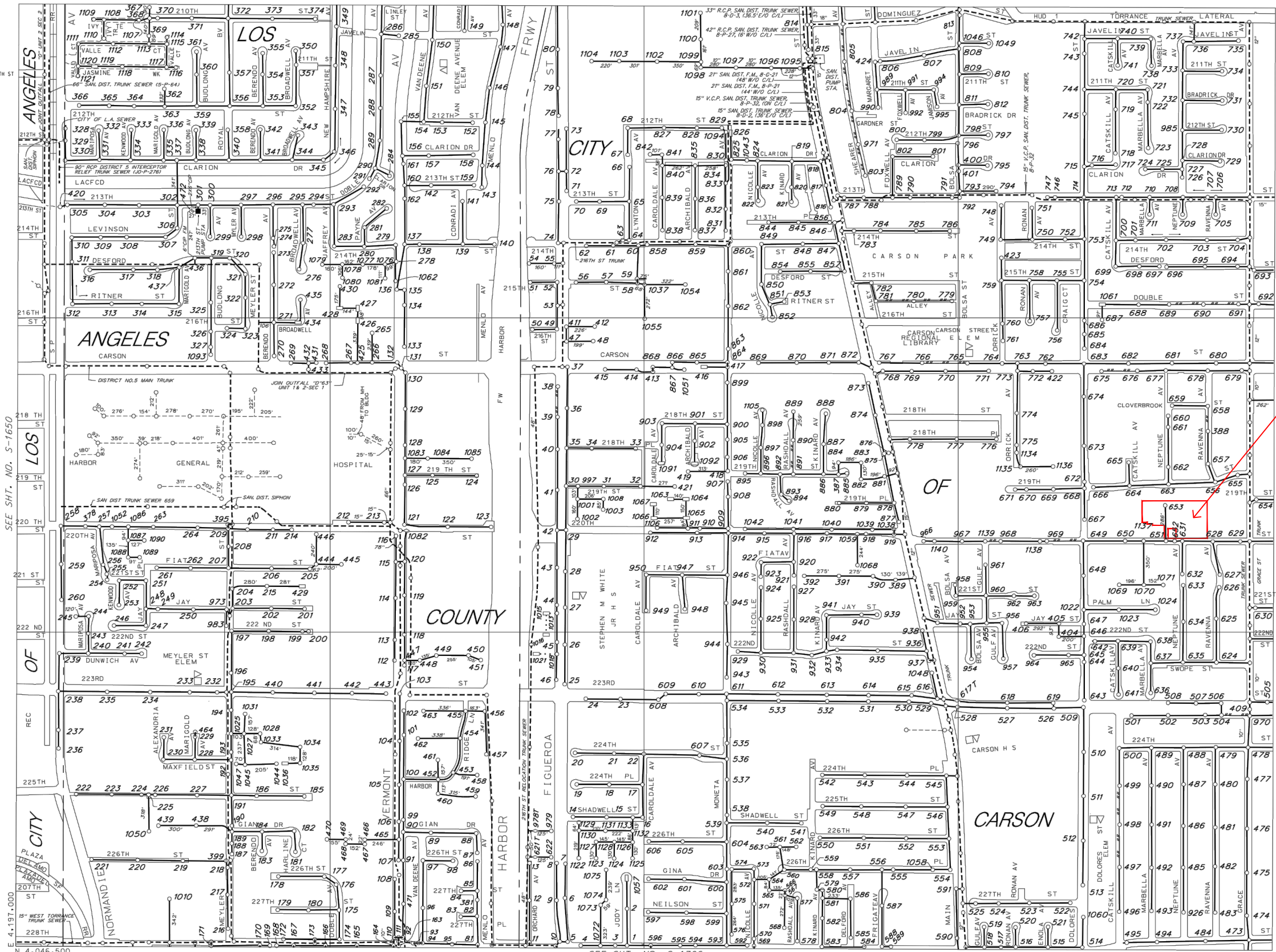
△ Flow 1 (gph)



POCKET 1

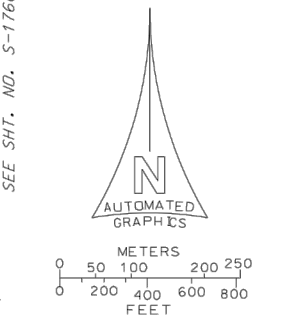
SEWER AREA STUDY MAP

SEE SHT. NO. S-1704



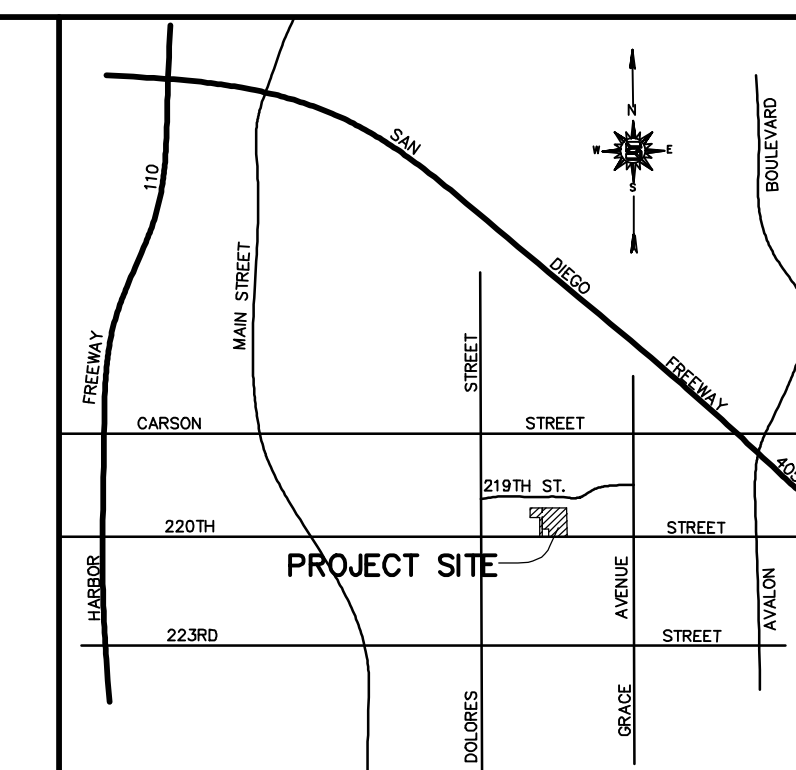
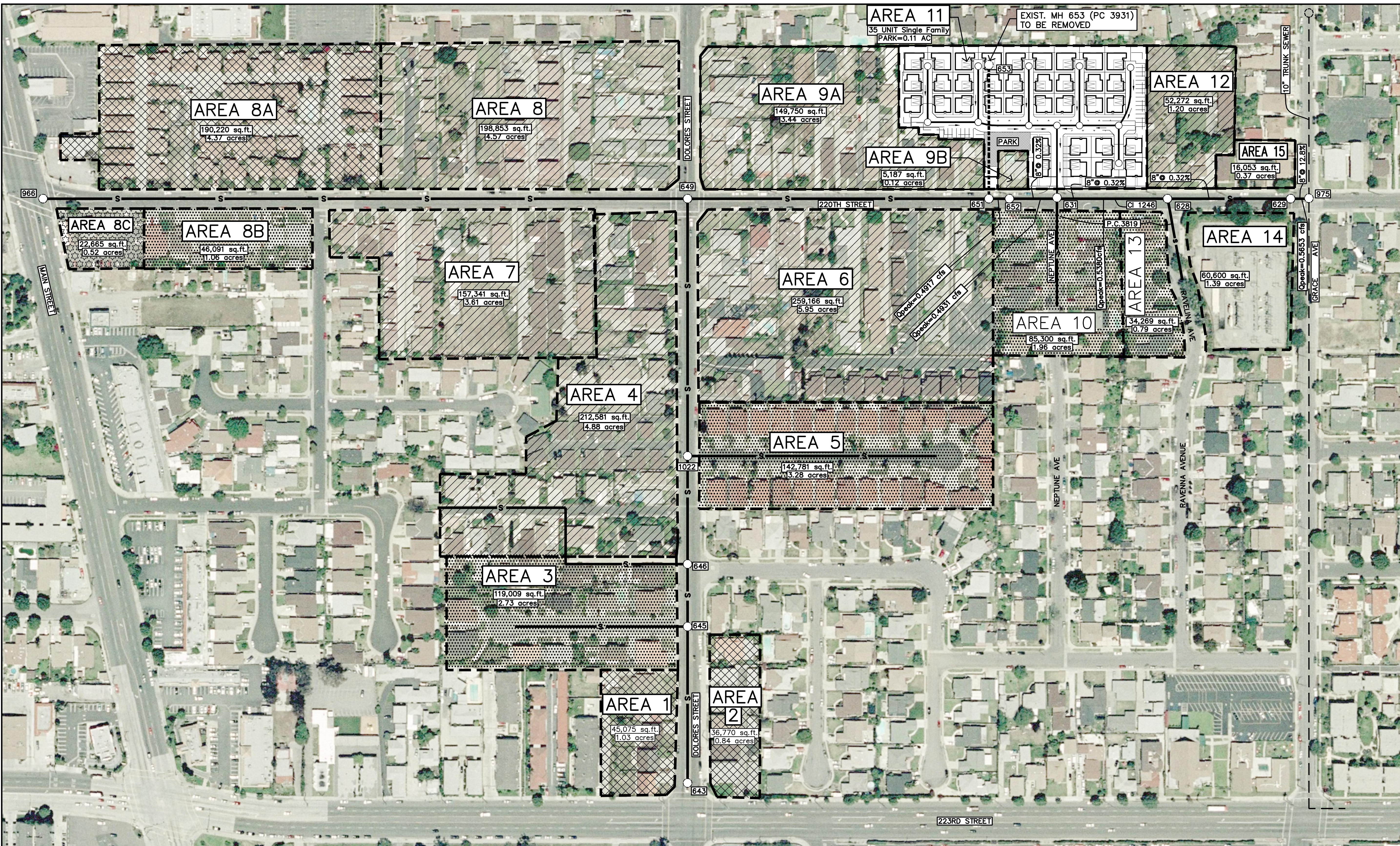
THIS MAP IS INTENDED FOR USE ONLY AS OPERATIONS MAP BY LOS ANGELES COUNTY SEWER MAINTENANCE DISTRICTS. LOS ANGELES COUNTY EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.

PROJECT SITE

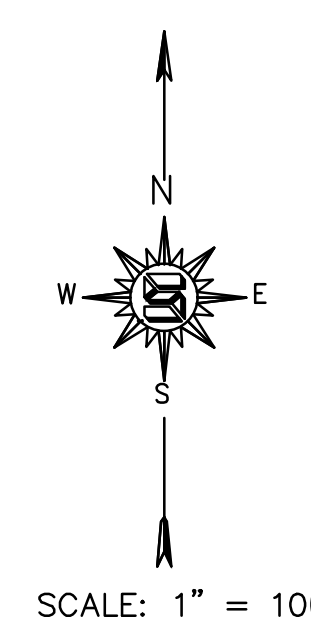


- LEGEND**
- CLAY SEWERS MAINTAINED BY S.M.D. 8" UNLESS OTHERWISE NOTED
 - PLASTIC SEWERS
 - CONCRETE SEWERS
 - CLAY SEWERS, LINED
 - CEMENT SEWERS, LINED
 - FORCE MAINS
 - - - SEWERS NOT MAINTAINED BY S.M.D.
 - - - TRUNK SEWERS
 - - - CITY BOUNDARY
 - STANDARD MANHOLE
 - △ DROP MANHOLE
 - SHALLOW MANHOLE
 - ◇ TRAP MANHOLE
 - ⊕ WEIR MANHOLE
 - C.O. CLEANOUT
 - L.H. LAMP HOLE
 - PUMP STATION
- TOTAL MH'S THIS MAP: 1083

MAP REV 05-19-16
DATA BASE REV 06-10-86



VICINITY MAP
NOT TO SCALE



LAND USE TABLE

AR A	LA D S I D S G A T O	AR A ACR	A LO CO c s ac OR c s unit	A C S
AR A 0	[Pattern]	0.00	0.02 0	0.02 0
AR A 1	[Pattern]	2.00	0.00 0	0.00 0
AR A 2	[Pattern]	0.00	0.00 0	0.00 0
AR A 3	[Pattern]	0.00	0.00 0	0.00 0
AR A 4	[Pattern]	0.00	0.00 0	0.00 0
AR A 5	[Pattern]	0.00	0.00 0	0.00 0
AR A 6	[Pattern]	0.00	0.00 0	0.00 0
AR A 7	[Pattern]	0.00	0.00 0	0.00 0
AR A 8	[Pattern]	0.00	0.00 0	0.00 0
AR A 9	[Pattern]	0.00	0.00 0	0.00 0
AR A 10	[Pattern]	0.00	0.00 0	0.00 0
AR A 11	[Pattern]	0.00	0.00 0	0.00 0
AR A 12	[Pattern]	0.00	0.00 0	0.00 0
AR A 13	[Pattern]	0.00	0.00 0	0.00 0
AR A 14	[Pattern]	0.00	0.00 0	0.00 0
AR A 15	[Pattern]	0.00	0.00 0	0.00 0

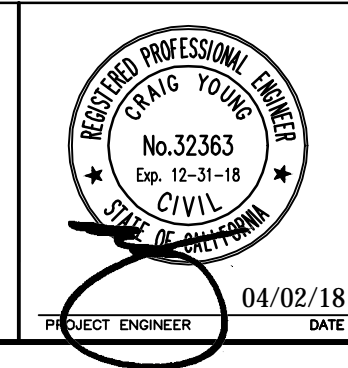
ZONING LEGEND

- [Pattern] RESIDENTIAL, MULTI-FAMILY, 8 UNITS PER ACRE
- [Pattern] RESIDENTIAL, MULTI-FAMILY, 10-12 UNITS PER ACRE
- [Pattern] RESIDENTIAL, MULTI-FAMILY, 14-25 UNITS PER ACRE
- [Pattern] COMMERCIAL

HYDRAULIC ANALYSIS FOR EXISTING SEWER

Street Name	Land Utilization	Comment	Segment	Pipe	Capacity	Area	Zoning	Calculated	Cumulative	Cumulative	% Full	% Full
			M.H. #	Size	(1/2 Full)	(Acres)	Coefficient	Flow (cfs)	Flow (cfs)	Flow Depth	Theoretical Flow Depth	Cumulative Flow / Pipe Capacity
220th Street	See Inset	Area 1 - Area 9A	651	8"	0.32	0.311	See Inset	0.4917	0.4917	5.296	132.40%	158.10%
220th Street	See Inset	Area 9B	652	8"	0.32	0.311	See Inset	0.0014	0.4931	5.307	132.68%	158.55%
220th Street	See Inset	Area 10 - Area 11	651	8"	0.32	0.311	See Inset	0.0449	0.5380	5.651	141.25%	172.99%
220th Street	See Inset	Area 12 - Trunk	628	8"	0.32	0.311	See Inset	0.0273	0.5653	5.971	146.78%	181.77%

OWNER:
DON WILSON BUILDERS
23705 CRENSHAW BLVD. SUITE 200
TORRANCE, CA. 90505
ATTN: RICHARD WELTER (310) 539-9902



DATE	REVISION	BY	APP

SCALE	CHK'D BY	APPROVED BY	DATE	W.O. NO.	SHEET	OF
1" = 100'			4-02-2018	5106-002-00	1	1

SIKAND
Engineering | Planning | Surveying

15230 Burbank Blvd,
Van Nuys, CA 91411
Tel: (818) 787-8550
Fax: (818) 901-7451
info@sikand.com

SEWER AREA STUDY FOR
VESTING TENTATIVE TRACT NO. 067200
IN THE CITY OF CARSON
COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

X:\sikand\5106-002-000\Engineering\Sewers\dwg\2018 Sewer Area Revisions\VT 067200 Sewer Area Study - 04_02_2018.dwg, 4/2/2018 3:46:55 PM, 1:100

POCKET 2

EXISTING SEWER PLANS

C.I. 1246-1-5 Note: correct forms →

BM. MM-25, Elev. 35.432, FBI 213, pg. 106
Main St. & 220th St., at int.
Cut Spk. in Conc. pvt. 11' E of 25 & int.

35
30
25

6" H.C. s
Ys extending Northerly to be laid horizontal

E1. 35.50
26+67
E1. 35.42
26+77.00

E1. 27.50
25+77.00

302.00

27 26 25



Proposed Widening Line Ord. No. 2047

MAIN
10' Cement Conc. Pav't
Asphaltic Conc. Pav't
1/2 of St.
10' Cement Conc. Pav't

TRACT

PERMIT No. 35323

Line Ord. No. 2047

Boundary of District

25+77.00 M.H.
25+28.9

24+86.2

24+35.2

111.32

287

6" H.C. s as noted above
8" Ys noted above

8" Stub

220

COLLECT ORD.
FRONTAGE CHARGE
\$30 PER FRONT FT.

Existing 12" Keystone Trunk
Sewer - San. Dist. No. 8

50% MIN.

TRACT

25+19.1

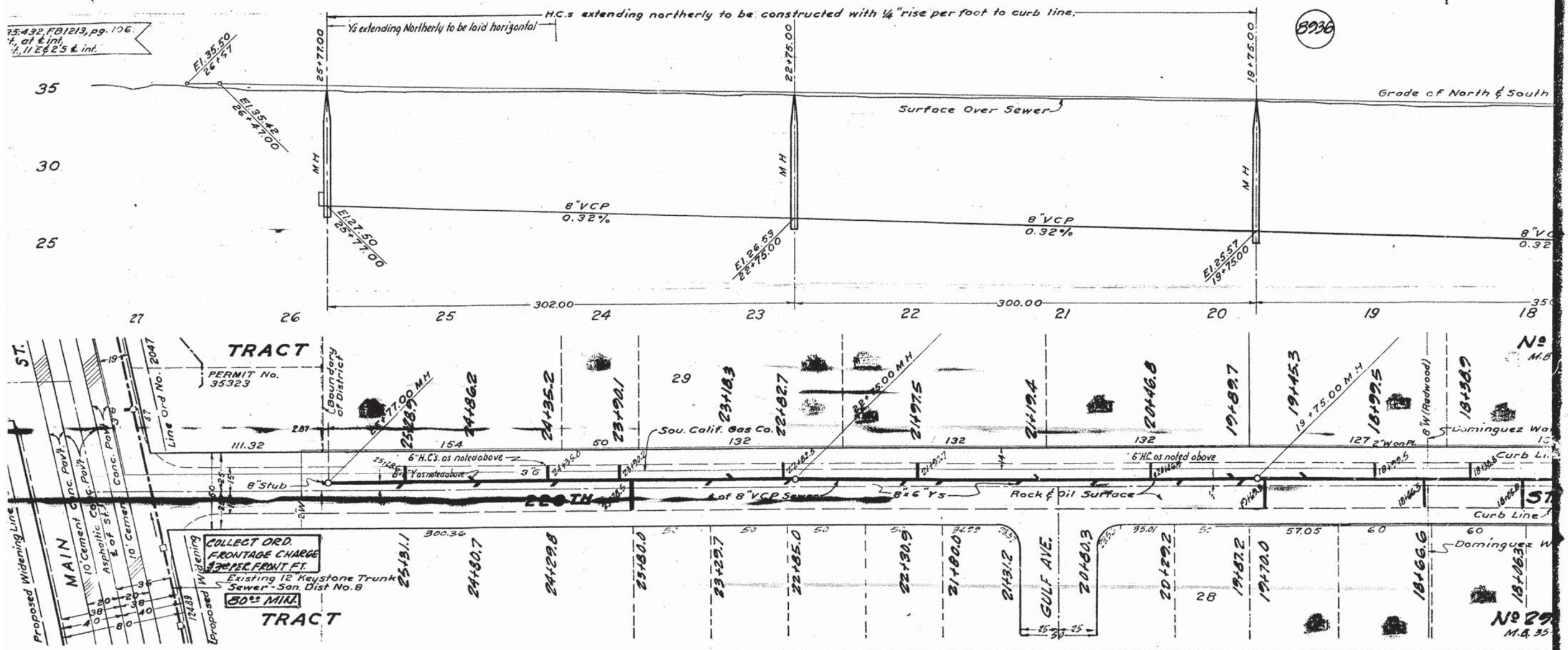
300.36

24+80.7

24+29.8

CV 1540

C.I. 1246-1-4



35-432, FB1213, pg. 106.
 1. at & int.
 2. at E&S & int.

8036

TRACT
 PERMIT No. 35323
 Line Ord No. 2047

COLLECT ORD.
 FRONTAGE CHARGE
 \$30 PER FRONT FT.
 Existing 12" Keystone Trunk
 Sewer - San. Dist No. 8
 50" MIN.

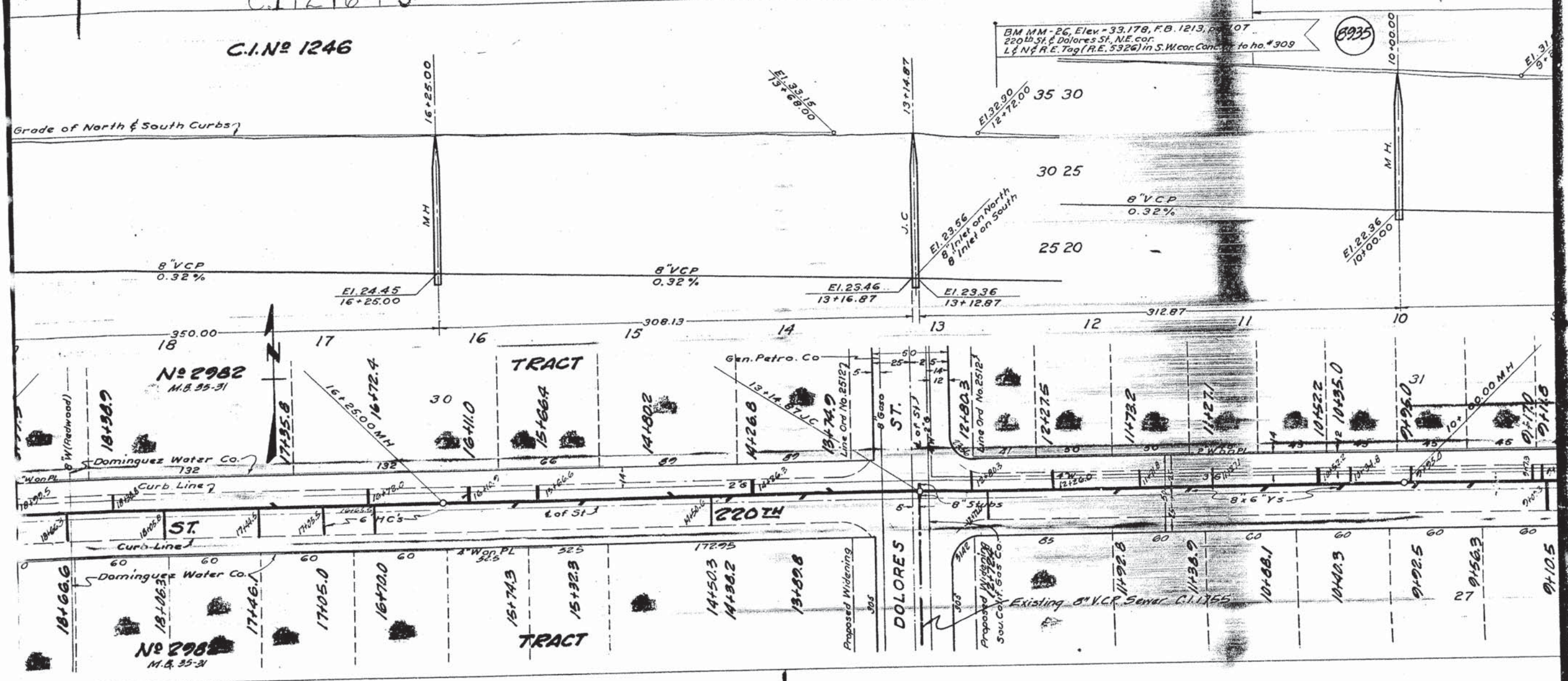
FB1213 pg. 116

FB1213 pg. 119-130

C11246-1-3

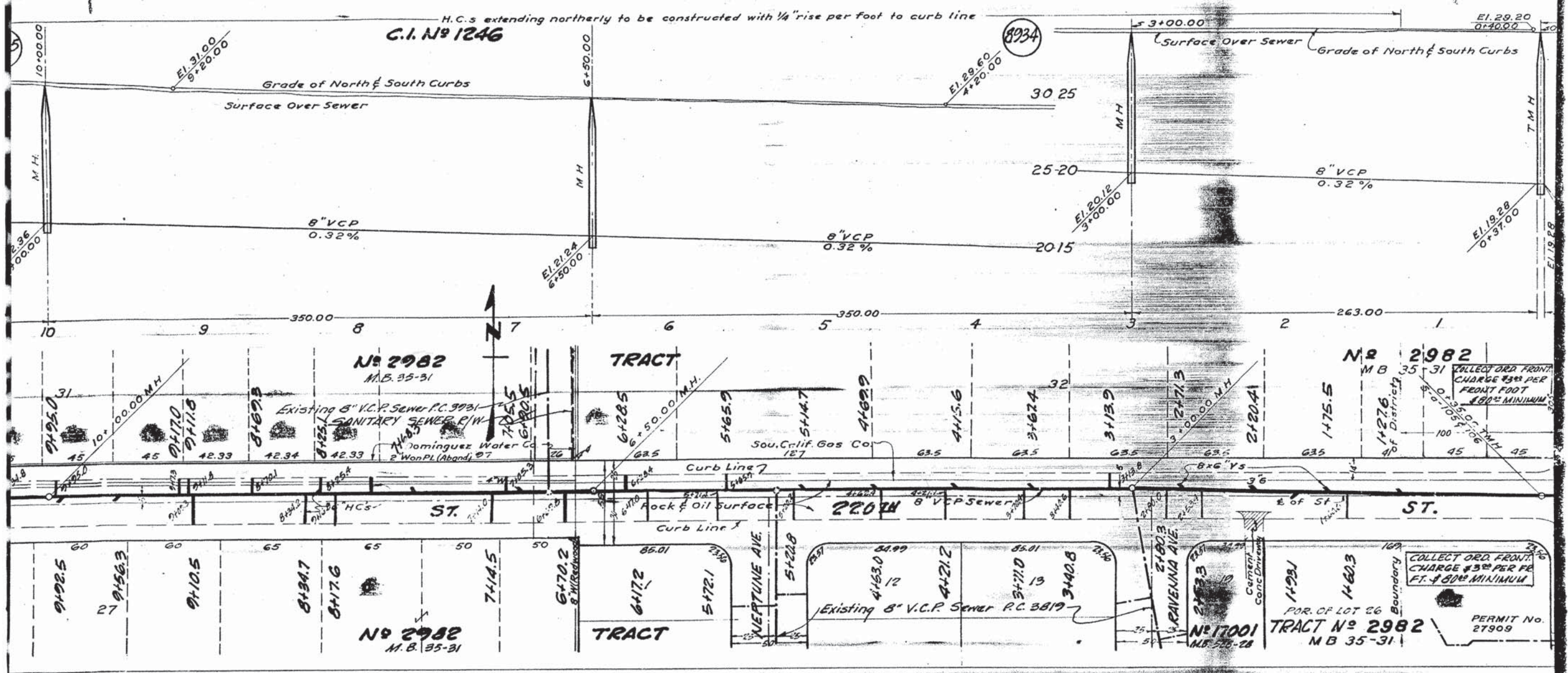
C.I. No 1246

Note correct form



FB 1213 Pg. 116

C.T. 1246-1-2



F B 1.213 pg. 131-144

Note Current Form

Trim Line 7 C.I. 1246-1-1

COUNTY IMPROVEMENT NO. 1246

PROFILE, ALIGNMENT AND GRADE OF
SANITARY SEWERS
TO BE CONSTRUCTED IN

220TH STREET
BETWEEN GRACE ST. AND MAIN ST.

ON SHEET

SCALE: VERT. 1"=4' HORIZ. 1"=40' SEPTEMBER, 1948

COUNTY OF LOS ANGELES, CALIFORNIA.

C. E. ARNOLD COUNTY ENGINEER

RECOMMENDED *Whitney* CHIEF DEPUTY APPROVED *Callwood* COUNTY ENGINEER

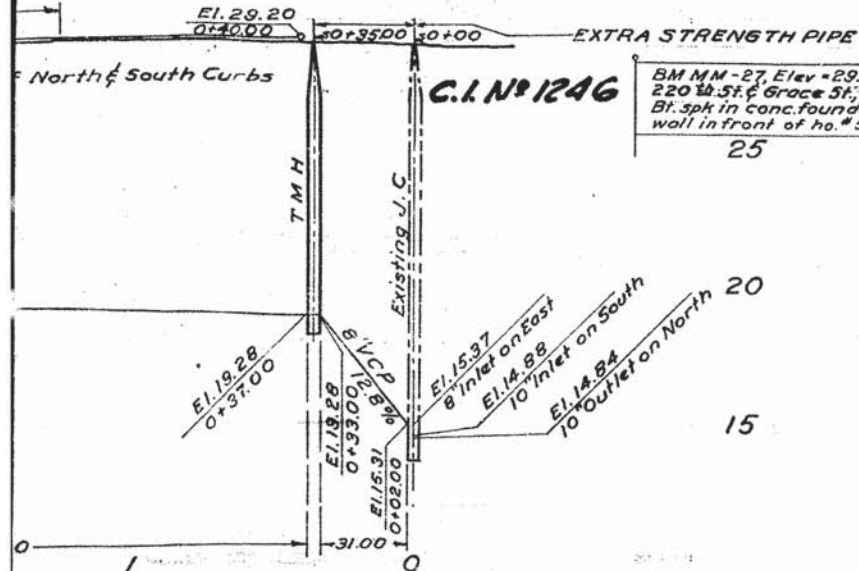
APPROVED AS TO FORM H. W. KENNEDY COUNTY COUNSEL

BY *Jolie D. Mahay* DEPUTY APPROVED *Callwood* CHIEF ENGINEER OF COUNTY SANITATION DISTRICT NO. 3

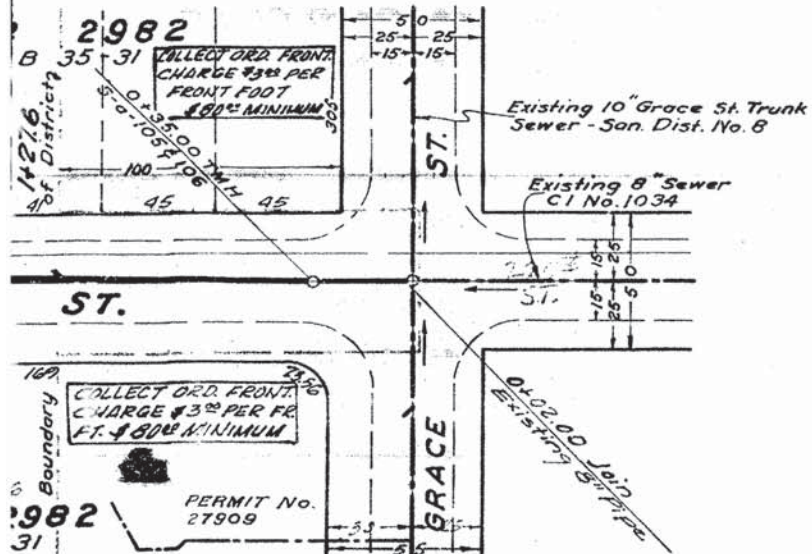
FOR LEGEND
SEE PLAN NO. S-a-64

NOTE: GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURB, CENTER LINE OF STREET OR CENTER LINE OF ALLEY ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS. ELEVATIONS ARE IN FEET ABOVE U. S. G. S. DATUM OR MEAN SEA LEVEL. UNIT PRICES FOR ADDITIONAL WORK WHICH MAY BE REQUIRED BUT WHICH CANNOT BE ASCERTAINED IN ADVANCE SHALL BE SUBMITTED IN THE PROPOSAL. THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.

REFERENCES		
W. S. 28	DESIGNED	KUENZEL AUG. 1948
A. B. 775	TRACED	KAWAKITA AUG. 1948
F. B. 1213	CHECKED	SMELSER, MAGNESS AUG. 1948.



USE STANDARD STRENGTH PIPE EXCEPT AS NOTED
 USE CEMENT MORTAR FOR ALL VITRIFIED CLAY PIPE JOINTS
 TAGS AS SPECIFIED IN SECTION 48 OF THE SPECIFICATIONS
 SHALL BE OMITTED
 CONSTRUCT HOUSE CONNECTIONS WITH INVERT AT CURB LINE
 6 FEET BELOW CURB GRADE EXCEPT AS NOTED
 ALL STRUCTURES SHALL BE BRICK SEWER STRUCTURES AS PER
 PLAN NO. S-a-104
 USE STANDARD MANHOLE FRAMES AND COVERS AS PER PLAN
 NO. S-a-117
 RESURFACE TRENCH WITHIN PAVED AREA WITH PREMIX ROCK AND GR.
 3 1/2" IN THICKNESS



FB 1213 pg. 117
FB 1213, pg. 144

Underground checked
9/1/48

Underground checked
9/1/48 9-25-48

Trim Line

Appendix C

Noise

Noise Appendix

Field Noise Measurement Data Sheets

FIELD NOISE MEASUREMENT DATA

PROJECT CAMBILA COURT - CANSON PROJECT # 10029-07
 SITE ID _____ OBSERVER(S) PETE VITAR
 SITE ADDRESS _____
 START DATE 6/6/14 END DATE 6/6/14
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 69 F HUMIDITY 69 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD _____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SCM-3 TYPE 1 2 SERIAL # M0317004
 CALIBRATOR BSWA CA 114 SERIAL # 480151
 CALIBRATION CHECK _____ PRE-TEST _____ dBA SPL POST-TEST _____ dBA SPL WINDSCRN FES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

REC #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>ST1</u> 8-9	<u>11:27</u>	<u>11:43</u>	<u>60.5</u>	<u>77.4</u>	<u>50.9</u>				

COMMENTS
READING TAKEN IN FRONT OF 423 E. 220TH ST (RESIDENTIAL);
PRIMARY NOISE SOURCE IS TRAFFIC ON E. 220TH ST;

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: ASPH DIST. TO RDWY C/L OR EOP: 29' FROM 220TH ST EOP


TRAFFIC COUNT DURATION: 15 MIN SPEED _____ MIN SPEED _____

COUNT 1 (OR RDWY 1)	DIRECTION	NB/EB		SB/WB		IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	
		NB/EB	SB/WB	NB/EB	SB/WB		NB/EB	SB/WB
	AUTOS	<u>76</u>						
	MED TRKS	<u>0</u>						
	HVY TRKS	<u>0</u>						
	BUSES	<u>0</u>						
	MOTRCLS	<u>0</u>						

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: _____

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRTNS/YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: DISTANT CONSTRUCTION NOISE (PERIODIC HAMMERING);

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS 4766; 4767; 4768; 4769; 4770; 4771
 OTHER COMMENTS / SKETCH _____



FIELD NOISE MEASUREMENT DATA

PROJECT CAMBRIA COURT - CANSON PROJECT # 10029-07
 SITE ID _____ OBSERVER(S) PEYE VITAR
 SITE ADDRESS _____
 START DATE 6/6/19 END DATE 6/6/19
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS

TEMP 71 F HUMIDITY 65 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD _____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT PICCOLLO SCM-3 TYPE 1 2 SERIAL # 140317004
 CALIBRATOR BSWA CA 114 SERIAL # 480151
 CALIBRATION CHECK _____ PRE-TEST _____ dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

ST3

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>12-13</u>	<u>12:12</u>	<u>12:28</u>	<u>54.4</u>	<u>78.4</u>	<u>50.6</u>				

COMMENTS

READING TAKEN AT BACK PROJECTIONS LINE OF 358 E. 219TH ST (RESIDENTIAL) IN ALLEY; PRIMARY NOISE SOURCE IS CARS USING ALLEY TO ACCESS RESIDENTIAL RESIDENCE DRIVING A/S (LESS THAN 10 CARS USED ALLEY); SECONDARY IS TRAFFIC ON E. 220TH ST (APX 300' TO EOP)

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL
 ROADWAY TYPE: MIXED CONCRETE / GRAVEL IN ALLEY OTHER: FROM EOP ON E. 220TH ST
 TRAFFIC COUNT DURATION: _____ MIN SPEED _____ MIN SPEED
 DIRECTION NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB
 COUNT 1 (OR RDWY 1) AUTOS _____ MED TRKS _____ HVY TRKS _____ BUSES _____ MOTRCLS _____
 IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE _____
 COUNT 2 (OR RDWY 2)

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRTSNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DIST. GARDENERS/LANDSCAPING NOISE
 OTHER: TRAFFIC ON E. 220TH ST.; WIND CHIMES OCCASIONAL SOUND OF WIND CHIMES ON NEARBY HOME PORCHES

DESCRIPTION / SKETCH

TERRAIN HARD SOFT MIXED FLAT OTHER:
 PHOTOS 4780; 4781; 4782; 4783; 4784;
 OTHER COMMENTS / SKETCH



FIELD NOISE MEASUREMENT DATA

PROJECT CAMBRIA COURT - CANSON PROJECT # 10029-07
 SITE ID _____ OBSERVER(S) PEPE VITAR
 SITE ADDRESS _____
 START DATE 6/6/19 END DATE 6/6/19
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 71 F HUMIDITY 65 % R.H. WIND CALM LIGHT MODERATE
 WINDSPD _____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 140317004
 CALIBRATOR BSWA CA 114 SERIAL # 480151
 CALIBRATION CHECK _____ PRE-TEST _____ dBA SPL POST-TEST _____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

S74

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>14-15</u>	<u>12:38</u>	<u>12:53</u>	<u>62.3</u>	<u>81.0</u>	<u>54.2</u>				

COMMENTS
READING TAKEN ALONGSIDE 22003 RAVENNA AVE (RESIDENCE) ON E. 220TH ST SIDE;
PRIMARY NOISE SOURCE IS TRAFFIC ON E. 220TH ST; METER APPROX 36 FEET
RAVENNA AVE EOP;

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 5' TO EOP ON E. 220TH ST
 TRAFFIC COUNT DURATION: 15 MIN SPEED _____ MIN SPEED _____

COUNT 1 (OR RDWY 1)	DIRECTION				IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	DIRECTION						
	NB/EB	SB/WB	NB/EB	SB/WB			NB/EB	SB/WB	NB/EB	SB/WB			
AUTOS	<u>116</u>				<input checked="" type="checkbox"/>								
MED TRKS	<u>1</u>												
HVY TRKS	<u>0</u>												
BUSES	<u>0</u>												
MOTRCLS	<u>0</u>												

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: _____

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS 4786; 4787; 4788; 4789; 4790; 4791;
 OTHER COMMENTS / SKETCH _____



FIELD NOISE MEASUREMENT DATA

PROJECT CAMBRA COURT - CANSAJ PROJECT # 10029-07
 SITE ID _____ OBSERVER(S) PEYE VITAR
 SITE ADDRESS _____
 START DATE 6/6/19 END DATE 6/6/19
 START TIME _____ END TIME _____

METEOROLOGICAL CONDITIONS
 TEMP 71 F HUMIDITY 65 % R.H. WIND SALM LIGHT MODERATE
 WINDSPD _____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
 MEAS. INSTRUMENT PICCOLO SCM-3 TYPE 1 2 SERIAL # 140317004
 CALIBRATOR BSWA CA 114 SERIAL # 480151
 CALIBRATION CHECK PRE-TEST _____ dBA SPL POST-TEST _____ dBA SPL WINDSCRN FES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: _____

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>(575) 16-17</u>	<u>12:59</u>	<u>13:14</u>	<u>63.2</u>	<u>81.2</u>	<u>52.0</u>				

COMMENTS
READING TAKEN IN FRONT OF 334 E. 220TH ST (RESIDENTIAL);
PRIMARY NOISE SOURCE IS TRAFFIC ON E. 220TH ST;

SOURCE INFO AND TRAFFIC COUNTS
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: _____
 ROADWAY TYPE: AS PBLT DIST. TO RDWY C/L OR EOP: 22'
 TRAFFIC COUNT DURATION: 15 MIN SPEED _____ MIN SPEED _____

COUNT 1 (OR RDWY 1)	DIRECTION	MIN		SPEED		IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	MIN		SPEED	
		NB/EB	SB/WB	NB/EB	SB/WB			NB/EB	SB/WB	NB/EB	SB/WB
	AUTOS	<u>103</u>									
	MED TRKS	<u>1</u>									
	HVY TRKS	<u>0</u>									
	BUSES	<u>2</u>									
	MOTRCLS	<u>0</u>									

 SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
 POSTED SPEED LIMIT SIGNS SAY: _____
 OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
 DIST. KIDS PLAYING DIST. CONVRSTNS/YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
 OTHER: DISTANT CONSTRUCTION NOISE (OCCASIONAL GRINDER NOISE) PART OF READING

DESCRIPTION / SKETCH
 TERRAIN HARD SOFT MIXED FLAT OTHER: _____
 PHOTOS 4793; 4794; 4795; 4796; 4797
 OTHER COMMENTS / SKETCH _____



Construction Noise Model Input / Output

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019
 Case Description: Cambria Court Project - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	20	0
Excavator	No	40		80.7	30	0
Excavator	No	40		80.7	50	0
Excavator	No	40		80.7	200	0
Dozer	No	40		81.7	20	0
Dozer	No	40		81.7	50	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Concrete Saw	97.5	90.5	N/A	N/A	N/A	N/A
Excavator	85.1	81.2	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A
Excavator	68.7	64.7	N/A	N/A	N/A	N/A
Dozer	89.6	85.6	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	N/A	N/A	N/A	N/A
Total	97.5	92.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	100	0
Excavator	No	40		80.7	100	0
Excavator	No	40		80.7	100	0
Excavator	No	40		80.7	100	0
Dozer	No	40		81.7	100	0

Dozer No 40 81.7 100 0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Concrete Saw	83.6	76.6	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A
Total	83.6	80.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 6/27/2019
 Case Description: Cambria Court Project - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Device	Impact	Usage (%)	Equipment			
				Spec	Actual	Receptor	Estimated
				Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Dozer	No		40	81.7	20	0	
Dozer	No		40	81.7	30	0	
Dozer	No		40	81.7	200	0	
Backhoe	No		40	77.6	30	0	
Front End Loader	No		40	79.1	50	0	
Tractor	No		40	84	200	0	
Backhoe	No		40	77.6	50	0	

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Dozer	89.6	85.6	N/A	N/A	N/A	N/A
Dozer	86.1	82.1	N/A	N/A	N/A	N/A
Dozer	69.6	65.6	N/A	N/A	N/A	N/A
Backhoe	82	78	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A

Backhoe		77.6	73.6	N/A	N/A	N/A	N/A
	Total	89.6	88.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

		Equipment				
		Impact	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device		Usage(%)			
Dozer	No		40		81.7	100
Dozer	No		40		81.7	100
Dozer	No		40		81.7	100
Backhoe	No		40		77.6	100
Front End Loader	No		40		79.1	100
Tractor	No		40	84		100
Backhoe	No		40		77.6	100

Results

		Calculated (dBA)		Noise Limits (dBA)			
		*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Equipment							
Dozer		75.6	71.7	N/A	N/A	N/A	N/A
Dozer		75.6	71.7	N/A	N/A	N/A	N/A
Dozer		75.6	71.7	N/A	N/A	N/A	N/A
Backhoe		71.5	67.6	N/A	N/A	N/A	N/A
Front End Loader		73.1	69.1	N/A	N/A	N/A	N/A
Tractor		78	74	N/A	N/A	N/A	N/A
Backhoe		71.5	67.6	N/A	N/A	N/A	N/A
	Total	78	79.5	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 6/27/2019
Case Description: Cambria Court Project - Grading

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	20	0
Grader	No	40	85		30	0
Dozer	No	40		81.7	200	0
Backhoe	No	40		77.6	30	0
Front End Loader	No	40		79.1	50	0
Tractor	No	40	84		200	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Excavator	88.7	84.7	N/A	N/A	N/A	N/A
Grader	89.4	85.5	N/A	N/A	N/A	N/A
Dozer	69.6	65.6	N/A	N/A	N/A	N/A
Backhoe	82	78	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A
Total	89.4	88.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment	Actual	Receptor	Estimated
			Spec Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	100	0
Grader	No	40	85		100	0
Dozer	No	40		81.7	100	0
Backhoe	No	40		77.6	100	0
Front End Loader	No	40		79.1	100	0
Tractor	No	40	84		100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Excavator	74.7	70.7	N/A	N/A	N/A	N/A
Grader	79	75	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A

Total 79 79.9 N/A N/A N/A N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019

Case Description: Cambria Court Project - Building Construction 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Device	Impact	Equipment				
			Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No		16		80.6	20	0
Man Lift	No		20		74.7	30	0
Man Lift	No		20		74.7	200	0
Man Lift	No		20		74.7	30	0
Generator	No		50		80.6	50	0
Tractor	No		40	84		200	0
Front End Loader	No		40		79.1	50	0
Backhoe	No		40		77.6	200	0
Welder / Torch	No		40		74	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Day		Evening	
				Leq	Lmax	Leq	Lmax
Crane	88.5	80.6	N/A	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Man Lift	62.7	55.7	N/A	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Generator	80.6	77.6	N/A	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A	N/A
Welder / Torch	74	70	N/A	N/A	N/A	N/A	N/A
Total	88.5	84.1	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

Residence - Typical	Residential	65	60	55			
Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	
			Spec Lmax (dBA)	Actual Lmax (dBA)			
Crane	No	16			80.6	100	0
Man Lift	No	20			74.7	100	0
Man Lift	No	20			74.7	100	0
Man Lift	No	20			74.7	100	0
Generator	No	50			80.6	100	0
Tractor	No	40		84		100	0
Front End Loader	No	40			79.1	100	0
Backhoe	No	40			77.6	100	0
Welder / Torch	No	40			74	100	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	
Crane	74.5	66.6	N/A	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A	N/A
Total	78	78.1	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019
Case Description: Cambria Court Project - Building Construction 2

		---- Receptor #1 ----						
Description	Land Use	Baselines (dBA)			Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
		Daytime	Evening	Night				
Residence - Nearest	Residential	65	60	55				
Crane					80.6	20	0	

Man Lift	No	20		74.7	30	0
Man Lift	No	20		74.7	200	0
Man Lift	No	20		74.7	30	0
Generator	No	50		80.6	50	0
Tractor	No	40	84		200	0
Front End Loader	No	40		79.1	50	0
Backhoe	No	40		77.6	200	0
Welder / Torch	No	40		74	50	0

Results

Equipment	Calculated (dBA)				Noise Limits (dBA)	
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	88.5	80.6	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A
Man Lift	62.7	55.7	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A
Generator	80.6	77.6	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A
Welder / Torch	74	70	N/A	N/A	N/A	N/A
Total	88.5	84.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Impact	Device	Usage(%)	Equipment			
				Spec	Actual	Receptor	Estimated
				Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No		16		80.6	100	0
Man Lift	No		20		74.7	100	0
Man Lift	No		20		74.7	100	0
Man Lift	No		20		74.7	100	0
Generator	No		50		80.6	100	0
Tractor	No		40	84		100	0
Front End Loader	No		40		79.1	100	0
Backhoe	No		40		77.6	100	0
Welder / Torch	No		40		74	100	0

Results

Equipment	Calculated (dBA)				Noise Limits (dBA)	
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	74.5	66.6	N/A	N/A	N/A	N/A

Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A
Total	78	78.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 6/27/2019
Case Description: Cambria Court Project - Building Construction 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	20	0
Man Lift	No	20		74.7	30	0
Man Lift	No	20		74.7	200	0
Man Lift	No	20		74.7	30	0
Generator	No	50		80.6	50	0
Tractor	No	40	84		200	0
Front End Loader	No	40		79.1	50	0
Backhoe	No	40		77.6	200	0
Welder / Torch	No	40		74	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	
Crane	88.5	80.6	N/A	N/A	N/A	N/A	
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	
Man Lift	62.7	55.7	N/A	N/A	N/A	N/A	
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	
Generator	80.6	77.6	N/A	N/A	N/A	N/A	
Tractor	72	68	N/A	N/A	N/A	N/A	
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	

Backhoe		65.5	61.5	N/A	N/A	N/A	N/A
Welder / Torch		74	70	N/A	N/A	N/A	N/A
	Total	88.5	84.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	100	0
Man Lift	No	20		74.7	100	0
Man Lift	No	20		74.7	100	0
Man Lift	No	20		74.7	100	0
Generator	No	50		80.6	100	0
Tractor	No	40	84		100	0
Front End Loader	No	40		79.1	100	0
Backhoe	No	40		77.6	100	0
Welder / Torch	No	40		74	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	74.5	66.6	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A
	Total	78	78.1	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019
Case Description: Cambria Court Project - Building Construction 4

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	20	0
Man Lift	No	20		74.7	30	0
Man Lift	No	20		74.7	200	0
Man Lift	No	20		74.7	30	0
Generator	No	50		80.6	50	0
Tractor	No	40	84		200	0
Front End Loader	No	40		79.1	50	0
Backhoe	No	40		77.6	200	0
Welder / Torch	No	40		74	50	0

Equipment	Results						
	Calculated (dBA)				Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Evening Leq	Day Leq	Evening Lmax	Evening Leq
Crane	88.5	80.6	N/A	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Man Lift	62.7	55.7	N/A	N/A	N/A	N/A	N/A
Man Lift	79.1	72.1	N/A	N/A	N/A	N/A	N/A
Generator	80.6	77.6	N/A	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A	N/A
Welder / Torch	74	70	N/A	N/A	N/A	N/A	N/A
Total	88.5	84.1	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100	0
Man Lift	No	20		74.7	100	0
Man Lift	No	20		74.7	100	0
Man Lift	No	20		74.7	100	0
Generator	No	50		80.6	100	0
Tractor	No	40	84		100	0

Front End Loader	No	40	79.1	100	0
Backhoe	No	40	77.6	100	0
Welder / Torch	No	40	74	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	74.5	66.6	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Man Lift	68.7	61.7	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A
Total	78	78.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019
Case Description: Cambria Court Project - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			Concrete Mixer Truck	No	40	78.8
Concrete Mixer Truck	No	40	78.8	30	0	
Paver	No	50	77.2	200	0	
Pumps	No	50	80.9	30	0	
Pumps	No	50	80.9	50	0	
Roller	No	20	80	30	0	
Roller	No	20	80	50	0	
Backhoe	No	40	77.6	200	0	

Results

Calculated (dBA)	Noise Limits (dBA)	
	Day	Evening

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	86.8	82.8	N/A	N/A	N/A	N/A
Concrete Mixer Truck	83.2	79.3	N/A	N/A	N/A	N/A
Paver	65.2	62.2	N/A	N/A	N/A	N/A
Pumps	85.4	82.4	N/A	N/A	N/A	N/A
Pumps	80.9	77.9	N/A	N/A	N/A	N/A
Roller	84.4	77.4	N/A	N/A	N/A	N/A
Roller	80	73	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A
Total	86.8	87.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Mixer Truck	No	40		78.8	100	0
Concrete Mixer Truck	No	40		78.8	100	0
Paver	No	50		77.2	100	0
Pumps	No	50		80.9	100	0
Pumps	No	50		80.9	100	0
Roller	No	20		80	100	0
Roller	No	20		80	100	0
Backhoe	No	40		77.6	100	0

Results

Equipment	Calculated (dBA)				Noise Limits (dBA)	
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	72.8	68.8	N/A	N/A	N/A	N/A
Concrete Mixer Truck	72.8	68.8	N/A	N/A	N/A	N/A
Paver	71.2	68.2	N/A	N/A	N/A	N/A
Pumps	74.9	71.9	N/A	N/A	N/A	N/A
Pumps	74.9	71.9	N/A	N/A	N/A	N/A
Roller	74	67	N/A	N/A	N/A	N/A
Roller	74	67	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A
Total	74.9	78.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/27/2019
 Case Description: Cambria Court Project - Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Nearest	Residential	65	60	55

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	20	0

Results

Equipment	Calculated (dBA)	Noise Limits (dBA)					
		Day		Evening			
		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		85.6	81.6	N/A	N/A	N/A	N/A
Total		85.6	81.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residence - Typical	Residential	65	60	55

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	100	0

Results

Equipment	Calculated (dBA)	Noise Limits (dBA)					
		Day		Evening			
		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		71.6	67.7	N/A	N/A	N/A	N/A
Total		71.6	67.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Traffic Noise Model Input / Output

Dudek MG				10 July 2019 TNM 2.5							
INPUT: ROADWAYS				Average pavement type shall be used unless			a State highway agency substantiates the use				
PROJECT/CONTRACT: 10029.07							of a different type with the approval of FHWA				
RUN: Cambria Court Resi Carson - Existing											
Roadway Name	Width	Points		Coordinates (pavement)			Flow Control			Segment	
		Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Roadway1	12.0	point1	1	1,044.5	2,084.7	25.00				Average	
		point3	3	1,347.1	2,083.9	25.00					
Neptune Avenue	12.0	point36	36	2,141.9	1,508.0	25.00				Average	
		point25	25	2,138.6	2,084.8	25.00					
Roadway1-2-2-2-2	12.0	point38	38	2,399.5	1,511.3	25.00				Average	
		point27	27	2,403.0	1,651.1	25.00				Average	
		point28	28	2,433.9	1,759.6	25.00				Average	
		point29	29	2,427.2	1,848.9	25.00				Average	
		point30	30	2,385.2	1,944.7	25.00				Average	
		point31	31	2,381.2	2,085.0	25.00					
Roadway1-2-2-2-2-2-2	12.0	point40	40	2,674.9	1,519.5	25.00				Average	
		point33	33	2,666.2	2,087.2	25.00				Average	
		point34	34	2,672.4	2,620.5	25.00				Average	
		point2	2	2,672.4	2,879.2	25.00					
Roadway1-2-2	12.0	point42	42	1,348.5	1,541.4	25.00				Average	
		point21	21	1,350.2	2,077.9	25.00				Average	
		point22	22	1,350.2	2,498.9	25.00				Average	
		point23	23	1,347.5	2,950.8	25.00					
Roadway1-2-2	12.0	point44	44	1,034.2	2,503.2	25.00				Average	
		point12	12	1,348.4	2,504.8	25.00					
Roadway1-2-2-2	12.0	point45	45	1,352.4	2,505.0	25.00				Average	
		point13	13	1,407.5	2,523.4	25.00				Average	
		point14	14	1,716.5	2,538.0	25.00				Average	
		point15	15	2,023.8	2,548.4	25.00				Average	
		point16	16	2,329.4	2,548.4	25.00				Average	

INPUT: TRAFFIC FOR LAeq1h Percentages

10029.07

	point15	15	400	97	30	2	30	1	30	0	0	0	0
	point16	16	400	97	30	2	30	1	30	0	0	0	0
	point17	17	400	97	30	2	30	1	30	0	0	0	0
	point18	18	400	97	30	2	30	1	30	0	0	0	0
	point19	19											
East 220th St - Dolores to Neptune	point46	46	498	97	30	2	30	1	30	0	0	0	0
	point4	4	498	97	30	2	30	1	30	0	0	0	0
	point5	5	498	97	30	2	30	1	30	0	0	0	0
	point6	6											
Roadway1-2-2	point47	47	0	0	0	0	0	0	0	0	0	0	0
	point10	10											
East 220th St - Neptune to Grace	point48	48	491	97	30	2	30	1	30	0	0	0	0
	point7	7	491	97	30	2	30	1	30	0	0	0	0
	point8	8	491	97	30	2	30	1	30	0	0	0	0
	point9	9											

INPUT: RECEIVERS

10029.07

							10 July 2019					
Dudek							TNM 2.5					
MG												
INPUT: RECEIVERS												
PROJECT/CONTRACT:		10029.07										
RUN:		Cambria Court Resi Carson - Existing										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST1	1	1	2,189.5	2,136.5	25.00	5.00	0.00	66	10.0	8.0	Y	
ST2	2	1	1,994.8	2,128.9	25.00	5.00	0.00	66	10.0	8.0	Y	
ST3	3	1	1,982.8	2,414.3	25.00	5.00	0.00	66	10.0	8.0	Y	
ST4	4	1	2,309.8	2,062.1	25.00	5.00	0.00	66	10.0	8.0	Y	
ST5	5	1	1,769.5	2,054.5	25.00	5.00	0.00	66	10.0	8.0	Y	

Dudek										10 July 2019									
MG										TNM 2.5									
INPUT: BARRIERS																			
PROJECT/CONTRACT:										10029.07									
RUN:										Cambria Court Resi Carson - Existing									
Barrier										Points									
Name	Type	Height		If Wall \$ per Unit Area	If Berm \$ per Unit Vol.	Top Width	Run:Rise	Add'tnl \$ per Unit Length	Name	No.	Coordinates (bottom)			Height at Point	Segment				Important Reflec- tions?
		Min	Max								X	Y	Z		Seg Ince- ment	Ht	Perturbs #Up #Dn	On Struct?	
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1-2-2	W	0.00	99.99	0.00				0.00	point86	86	2,446.9	1,929.9	25.00	5.00	0.00	0	0		
									point17	17	2,448.0	1,963.8	25.00	5.00	0.00	0	0		
									point18	18	2,472.1	1,964.9	25.00	5.00					
Barrier1-2-2-2-2	W	0.00	99.99	0.00				0.00	point99	99	2,465.5	1,853.3	25.00	5.00	0.00	0	0		
									point20	20	2,466.6	1,909.1	25.00	5.00	0.00	0	0		
									point21	21	2,481.9	1,906.9	25.00	5.00					

INPUT: BUILDING ROWS

10029.07

Dudek								10 July 2019
MG								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	10029.07							
RUN:	Cambria Court Resi Carson - E							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building1	12.00	80	1	1,013.9	2,554.4	25.00		
			2	1,286.5	2,550.9	25.00		
			3	1,289.9	2,830.4	25.00		
Building2	12.00	80	4	1,392.3	2,703.6	25.00		
			5	1,390.6	2,575.2	25.00		
			6	1,996.5	2,583.9	25.00		
			7	2,343.7	2,589.1	25.00		
			8	2,510.4	2,653.3	25.00		
			9	2,621.5	2,686.3	25.00		
			10	2,619.8	2,856.4	25.00		
Building4	12.00	80	14	1,038.2	2,465.8	25.00		
			15	1,307.3	2,471.0	25.00		
			16	1,307.3	2,132.5	25.00		
			17	1,059.0	2,137.7	25.00		
Building5	12.00	80	18	1,387.9	2,138.3	25.00		
			19	1,375.3	2,420.7	25.00		
			20	1,406.0	2,418.5	25.00		
			21	1,402.7	2,486.3	25.00		
			22	1,780.0	2,488.5	25.00		
			23	1,985.6	2,504.9	25.00		
			24	2,315.9	2,509.3	25.00		
			25	2,404.5	2,510.3	25.00		
			26	2,498.5	2,558.5	25.00		
			27	2,636.3	2,584.7	25.00		

INPUT: BUILDING ROWS

10029.07

			28	2,640.7	2,125.4	25.00
			29	2,226.2	2,129.7	25.00
			30	2,225.7	2,341.7	25.00
Building6	12.00	80	31	2,173.2	2,347.2	25.00
			32	2,174.3	2,137.2	25.00
			33	2,021.2	2,131.7	25.00
			34	2,014.6	2,406.2	25.00
Building7	12.00	80	35	1,954.4	2,411.7	25.00
			36	1,961.0	2,136.1	25.00
			37	1,388.9	2,138.3	25.00
Building8	12.00	80	38	3,053.8	2,478.0	25.00
			39	2,701.4	2,481.4	25.00
			40	2,701.4	2,806.1	25.00
Building10	12.00	80	45	3,024.3	2,394.6	25.00
			46	2,699.6	2,398.1	25.00
			47	2,704.9	2,142.9	25.00
			48	2,994.8	2,144.6	25.00
Building11	12.00	80	49	2,707.9	1,734.7	25.00
			50	2,701.0	2,048.9	25.00
			51	3,037.8	2,045.5	25.00
			52	3,046.0	1,590.7	25.00
Building12	12.00	80	53	2,350.3	1,835.7	25.00
			54	2,340.4	2,052.3	25.00
			55	2,173.1	2,056.6	25.00
			56	2,176.4	1,829.2	25.00
Building13	12.00	80	57	2,093.2	1,843.4	25.00
			58	2,088.9	2,043.5	25.00
			59	1,969.7	2,042.4	25.00
			60	1,969.7	2,020.5	25.00
			61	1,852.6	2,020.5	25.00
			62	1,855.9	1,836.8	25.00
Building14	12.00	80	63	1,812.2	1,839.0	25.00
			64	1,815.5	2,035.9	25.00
			65	1,376.9	2,030.4	25.00
			66	1,374.7	1,968.1	25.00
Building15	12.00	80	67	1,298.6	1,733.2	25.00

INPUT: BUILDING ROWS**10029.07**

			68	1,302.1	2,042.2	25.00
			69	1,151.0	2,050.9	25.00

RESULTS: SOUND LEVELS

10029.07

Dudek										10 July 2019		
MG										TNM 2.5		
										Calculated with TNM 2.5		
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:										10029.07		
RUN:										Cambria Court Resi Carson - Existing		
BARRIER DESIGN:										INPUT HEIGHTS		
										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.		
ATMOSPHERICS:										68 deg F, 50% RH		
Receiver												
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB		dB	dB	dB	dB
ST1	1	1	0.0	59.8	66	59.8	10	----	59.8	0.0	8	-8.0
ST2	2	1	0.0	60.9	66	60.9	10	----	60.9	0.0	8	-8.0
ST3	3	1	0.0	49.8	66	49.8	10	----	49.8	0.0	8	-8.0
ST4	4	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
ST5	5	1	0.0	61.5	66	61.5	10	----	61.5	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction								
				Min	Avg	Max						
				dB	dB	dB						
All Selected			5	0.0	0.0	0.0						
All Impacted			0	0.0	0.0	0.0						
All that meet NR Goal			0	0.0	0.0	0.0						

Dudek MG				10 July 2019 TNM 2.5							
INPUT: ROADWAYS				PROJECT/CONTRACT: 10029.07			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
RUN:				Cambria Court Resi Carson - Exist w Prj							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Roadway1	12.0	point1	1	1,044.5	2,084.7	25.00				Average	
		point3	3	1,347.1	2,083.9	25.00					
Roadway1-2-2	12.0	point36	36	2,141.9	1,508.0	25.00				Average	
		point25	25	2,138.6	2,084.8	25.00					
Roadway1-2-2-2-2	12.0	point38	38	2,399.5	1,511.3	25.00				Average	
		point27	27	2,403.0	1,651.1	25.00				Average	
		point28	28	2,433.9	1,759.6	25.00				Average	
		point29	29	2,427.2	1,848.9	25.00				Average	
		point30	30	2,385.2	1,944.7	25.00				Average	
		point31	31	2,381.2	2,085.0	25.00					
Roadway1-2-2-2-2-2-2	12.0	point40	40	2,674.9	1,519.5	25.00				Average	
		point33	33	2,666.2	2,087.2	25.00				Average	
		point34	34	2,672.4	2,620.5	25.00				Average	
		point2	2	2,672.4	2,879.2	25.00					
Roadway1-2-2	12.0	point42	42	1,348.5	1,541.4	25.00				Average	
		point21	21	1,350.2	2,077.9	25.00				Average	
		point22	22	1,350.2	2,498.9	25.00				Average	
		point23	23	1,347.5	2,950.8	25.00					
Roadway1-2-2	12.0	point44	44	1,034.2	2,503.2	25.00				Average	
		point12	12	1,348.4	2,504.8	25.00					
Roadway1-2-2-2	12.0	point45	45	1,352.4	2,505.0	25.00				Average	
		point13	13	1,407.5	2,523.4	25.00				Average	
		point14	14	1,716.5	2,538.0	25.00				Average	
		point15	15	2,023.8	2,548.4	25.00				Average	
		point16	16	2,329.4	2,548.4	25.00				Average	

INPUT: ROADWAYS

10029.07

		point17	17	2,391.2	2,568.3	25.00				Average
		point18	18	2,531.7	2,623.0	25.00				Average
		point19	19	2,669.2	2,628.2	25.00				
East 220th St - Dolores to Neptune	32.0	point46	46	1,355.3	2,083.9	25.00				Average
		point4	4	1,833.6	2,088.2	25.00				Average
		point5	5	2,000.2	2,090.8	25.00				Average
		point6	6	2,140.1	2,088.7	25.00				
Roadway1-2-2	12.0	point47	47	2,674.8	2,091.5	25.00				Average
		point10	10	3,065.4	2,095.0	25.00				
East 220th St - Neptune to Grace	32.0	point147	147	2,140.1	2,088.7	25.00				Average
		point7	7	2,202.8	2,089.4	25.00				Average
		point8	8	2,395.0	2,090.8	25.00				Average
		point9	9	2,663.1	2,091.5	25.00				

INPUT: TRAFFIC FOR LAeq1h Percentages

10029.07

	point15	15	400	97	30	2	30	1	30	0	0	0	0
	point16	16	400	97	30	2	30	1	30	0	0	0	0
	point17	17	400	97	30	2	30	1	30	0	0	0	0
	point18	18	400	97	30	2	30	1	30	0	0	0	0
	point19	19											
East 220th St - Dolores to Neptune	point46	46	511	97	30	2	30	1	30	0	0	0	0
	point4	4	511	97	30	2	30	1	30	0	0	0	0
	point5	5	511	97	30	2	30	1	30	0	0	0	0
	point6	6											
Roadway1-2-2	point47	47	0	0	0	0	0	0	0	0	0	0	0
	point10	10											
East 220th St - Neptune to Grace	point147	147	508	97	30	2	30	1	30	0	0	0	0
	point7	7	508	97	30	2	30	1	30	0	0	0	0
	point8	8	508	97	30	2	30	1	30	0	0	0	0
	point9	9											

INPUT: RECEIVERS

10029.07

							10 July 2019					
Dudek							TNM 2.5					
MG												
INPUT: RECEIVERS												
PROJECT/CONTRACT:		10029.07										
RUN:		Cambria Court Resi Carson - Exist w Prj										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST1	1	1	2,189.5	2,136.5	25.00	5.00	0.00	66	10.0	8.0	Y	
ST2	2	1	1,994.8	2,128.9	25.00	5.00	0.00	66	10.0	8.0	Y	
ST3	3	1	1,982.8	2,414.3	25.00	5.00	0.00	66	10.0	8.0	Y	
ST4	4	1	2,309.8	2,062.1	25.00	5.00	0.00	66	10.0	8.0	Y	
ST5	5	1	1,769.5	2,054.5	25.00	5.00	0.00	66	10.0	8.0	Y	

Dudek MG										10 July 2019 TNM 2.5									
INPUT: BARRIERS																			
PROJECT/CONTRACT:		10029.07																	
RUN:		Cambria Court Resi Carson - Exist w Prj																	
Barrier										Points									
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1-2-2	W	0.00	99.99	0.00				0.00	point86	86	2,446.9	1,929.9	25.00	5.00	0.00	0	0		
									point17	17	2,448.0	1,963.8	25.00	5.00	0.00	0	0		
									point18	18	2,472.1	1,964.9	25.00	5.00					
Barrier1-2-2-2-2	W	0.00	99.99	0.00				0.00	point99	99	2,465.5	1,853.3	25.00	5.00	0.00	0	0		
									point20	20	2,466.6	1,909.1	25.00	5.00	0.00	0	0		
									point21	21	2,481.9	1,906.9	25.00	5.00					
Barrier30	W	0.00	99.99	0.00				0.00	point100	100	2,084.2	2,178.1	25.00	15.00	0.00	0	0		
									point102	102	2,084.6	2,145.6	25.00	15.00	0.00	0	0		
									point103	103	2,118.9	2,145.2	25.00	15.00	0.00	0	0		
									point104	104	2,118.5	2,180.3	25.00	15.00					
Barrier30-2-2	W	0.00	99.99	0.00				0.00	point241	241	2,023.6	2,317.6	25.00	15.00	0.00	0	0		
									point134	134	2,024.0	2,281.5	25.00	15.00	0.00	0	0		
									point135	135	2,058.3	2,282.8	25.00	15.00	0.00	0	0		
									point136	136	2,058.3	2,317.6	25.00	15.00					
Barrier30-2-2	W	0.00	99.99	0.00				0.00	point243	243	2,083.7	2,227.2	25.00	15.00	0.00	0	0		
									point106	106	2,084.6	2,192.9	25.00	15.00	0.00	0	0		
									point107	107	2,118.1	2,192.0	25.00	15.00	0.00	0	0		
									point108	108	2,118.5	2,227.6	25.00	15.00					
Barrier30-2-2-2-2	W	0.00	99.99	0.00				0.00	point245	245	2,146.7	2,180.7	25.00	15.00	0.00	0	0		
									point110	110	2,147.1	2,145.2	25.00	15.00	0.00	0	0		
									point111	111	2,181.2	2,145.7	25.00	15.00					
Barrier30-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point246	246	2,181.2	2,145.7	25.00	15.00	0.00	0	0		
									point112	112	2,180.6	2,180.7	25.00	15.00					
Barrier30-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point247	247	2,204.9	2,180.7	25.00	15.00	0.00	0	0		
									point122	122	2,204.9	2,146.4	25.00	15.00	0.00	0	0		
									point123	123	2,239.1	2,146.4	25.00	15.00	0.00	0	0		
									point124	124	2,239.1	2,182.0	25.00	15.00					
Barrier30-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point250	250	2,146.3	2,227.2	25.00	15.00	0.00	0	0		
									point114	114	2,147.1	2,191.1	25.00	15.00	0.00	0	0		
									point115	115	2,180.1	2,192.0	25.00	15.00	0.00	0	0		
									point116	116	2,180.6	2,227.2	25.00	15.00					
Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point252	252	2,204.4	2,226.7	25.00	15.00	0.00	0	0		
									point118	118	2,205.3	2,191.1	25.00	15.00	0.00	0	0		
									point119	119	2,238.3	2,192.0	25.00	15.00	0.00	0	0		
									point120	120	2,238.7	2,227.2	25.00	15.00					

INPUT: BARRIERS

10029.07

Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point256	256	2,277.1	2,227.1	25.00	15.00	0.00	0	0		
									point130	130	2,277.1	2,191.8	25.00	15.00	0.00	0	0		
									point131	131	2,311.9	2,191.3	25.00	15.00	0.00	0	0		
									point132	132	2,311.9	2,227.1	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point258	258	2,277.7	2,181.2	25.00	15.00	0.00	0	0		
									point126	126	2,277.7	2,145.3	25.00	15.00	0.00	0	0		
									point127	127	2,312.4	2,145.1	25.00	15.00	0.00	0	0		
									point128	128	2,312.1	2,180.6	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2	W	0.00	99.99	0.00				0.00	point260	260	1,810.0	2,316.7	25.00	15.00	0.00	0	0		
									point194	194	1,810.4	2,280.7	25.00	15.00	0.00	0	0		
									point195	195	1,844.3	2,281.1	25.00	15.00	0.00	0	0		
									point196	196	1,844.3	2,317.6	25.00	15.00	0.00	0	0		
Barrier31-2	W	0.00	99.99	0.00				0.00	point261	261	1,811.3	2,406.8	25.00	15.00	0.00	0	0		
									point202	202	1,811.8	2,370.7	25.00	15.00	0.00	0	0		
									point203	203	1,845.6	2,371.2	25.00	15.00	0.00	0	0		
									point204	204	1,845.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2	W	0.00	99.99	0.00				0.00	point263	263	1,872.2	2,315.8	25.00	15.00	0.00	0	0		
									point206	206	1,872.6	2,279.8	25.00	15.00	0.00	0	0		
									point207	207	1,906.5	2,280.2	25.00	15.00	0.00	0	0		
									point208	208	1,906.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point265	265	1,810.9	2,360.2	25.00	15.00	0.00	0	0		
									point198	198	1,811.3	2,324.2	25.00	15.00	0.00	0	0		
									point101	101	1,845.2	2,324.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point267	267	1,872.2	2,406.8	25.00	15.00	0.00	0	0		
									point214	214	1,872.6	2,370.7	25.00	15.00	0.00	0	0		
									point215	215	1,906.5	2,371.2	25.00	15.00	0.00	0	0		
									point216	216	1,906.5	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point269	269	1,872.2	2,360.6	25.00	15.00	0.00	0	0		
									point210	210	1,872.6	2,324.6	25.00	15.00	0.00	0	0		
									point211	211	1,906.5	2,325.0	25.00	15.00	0.00	0	0		
									point212	212	1,906.5	2,361.5	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point271	271	1,916.5	2,316.2	25.00	15.00	0.00	0	0		
									point218	218	1,917.0	2,280.2	25.00	15.00	0.00	0	0		
									point219	219	1,950.9	2,280.7	25.00	15.00	0.00	0	0		
									point220	220	1,950.9	2,317.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point273	273	1,918.3	2,406.8	25.00	15.00	0.00	0	0		
									point226	226	1,918.7	2,370.7	25.00	15.00	0.00	0	0		
									point227	227	1,952.6	2,371.2	25.00	15.00	0.00	0	0		
									point228	228	1,952.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point275	275	1,916.5	2,360.2	25.00	15.00	0.00	0	0		
									point222	222	1,917.0	2,324.2	25.00	15.00	0.00	0	0		
									point223	223	1,950.9	2,324.6	25.00	15.00	0.00	0	0		
									point224	224	1,950.9	2,361.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point277	277	1,979.2	2,315.8	25.00	15.00	0.00	0	0		
									point230	230	1,979.6	2,279.8	25.00	15.00	0.00	0	0		
									point231	231	2,013.5	2,280.2	25.00	15.00	0.00	0	0		
									point232	232	2,013.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point279	279	1,980.0	2,406.3	25.00	15.00	0.00	0	0		
									point238	238	1,980.5	2,370.3	25.00	15.00	0.00	0	0		

INPUT: BARRIERS

10029.07

									point333	333	1,800.3	2,280.7	25.00	6.00	0.00	0	0		
									point334	334	1,800.3	2,247.5	25.00	6.00	0.00	0	0		
									point335	335	1,842.4	2,247.2	25.00	6.00	0.00	0	0		
									point336	336	1,842.4	2,232.5	25.00	6.00	0.00	0	0		
									point337	337	1,883.6	2,232.5	25.00	6.00	0.00	0	0		
									point338	338	1,883.9	2,221.4	25.00	6.00	0.00	0	0		
									point339	339	1,980.2	2,222.3	25.00	6.00	0.00	0	0		
									point340	340	1,979.9	2,144.8	25.00	6.00					

INPUT: BUILDING ROWS

10029.07

Dudek								10 July 2019
MG								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	10029.07							
RUN:	Cambria Court Resi Carson - E							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building1	12.00	80	1	1,013.9	2,554.4	25.00		
			2	1,286.5	2,550.9	25.00		
			3	1,289.9	2,830.4	25.00		
Building2	12.00	80	4	1,392.3	2,703.6	25.00		
			5	1,390.6	2,575.2	25.00		
			6	1,996.5	2,583.9	25.00		
			7	2,343.7	2,589.1	25.00		
			8	2,510.4	2,653.3	25.00		
			9	2,621.5	2,686.3	25.00		
			10	2,619.8	2,856.4	25.00		
Building4	12.00	80	14	1,038.2	2,465.8	25.00		
			15	1,307.3	2,471.0	25.00		
			16	1,307.3	2,132.5	25.00		
			17	1,059.0	2,137.7	25.00		
Building5	12.00	80	18	1,387.9	2,138.3	25.00		
			19	1,375.3	2,420.7	25.00		
			20	1,406.0	2,418.5	25.00		
			21	1,402.7	2,486.3	25.00		
			22	1,780.0	2,488.5	25.00		
			23	1,985.6	2,504.9	25.00		
			24	2,315.9	2,509.3	25.00		
			25	2,404.5	2,510.3	25.00		
			26	2,498.5	2,558.5	25.00		
			27	2,636.3	2,584.7	25.00		

INPUT: BUILDING ROWS

10029.07

			28	2,640.7	2,125.4	25.00
			29	2,343.0	2,128.3	25.00
Building8	12.00	80	38	3,053.8	2,478.0	25.00
			39	2,701.4	2,481.4	25.00
			40	2,701.4	2,806.1	25.00
Building10	12.00	80	45	3,024.3	2,394.6	25.00
			46	2,699.6	2,398.1	25.00
			47	2,704.9	2,142.9	25.00
			48	2,994.8	2,144.6	25.00
Building11	12.00	80	49	2,707.9	1,734.7	25.00
			50	2,701.0	2,048.9	25.00
			51	3,037.8	2,045.5	25.00
			52	3,046.0	1,590.7	25.00
Building12	12.00	80	53	2,350.3	1,835.7	25.00
			54	2,340.4	2,052.3	25.00
			55	2,173.1	2,056.6	25.00
			56	2,176.4	1,829.2	25.00
Building13	12.00	80	57	2,093.2	1,843.4	25.00
			58	2,088.9	2,043.5	25.00
			59	1,969.7	2,042.4	25.00
			60	1,969.7	2,020.5	25.00
			61	1,852.6	2,020.5	25.00
			62	1,855.9	1,836.8	25.00
Building14	12.00	80	63	1,812.2	1,839.0	25.00
			64	1,815.5	2,035.9	25.00
			65	1,376.9	2,030.4	25.00
			66	1,374.7	1,968.1	25.00
Building15	12.00	80	67	1,298.6	1,733.2	25.00
			68	1,302.1	2,042.2	25.00
			69	1,151.0	2,050.9	25.00
Building7-2	12.00	80	70	1,961.0	2,136.1	25.00
			37	1,388.9	2,138.3	25.00

RESULTS: SOUND LEVELS

10029.07

Dudek										10 July 2019		
MG										TNM 2.5		
										Calculated with TNM 2.5		
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:										10029.07		
RUN:										Cambria Court Resi Carson - Exist w Prj		
BARRIER DESIGN:										INPUT HEIGHTS		
										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.		
ATMOSPHERICS:										68 deg F, 50% RH		
Receiver												
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB		dB	dB	dB	dB
ST1	1	1	0.0	60.0	66	60.0	10	----	60.0	0.0	8	-8.0
ST2	2	1	0.0	61.0	66	61.0	10	----	61.0	0.0	8	-8.0
ST3	3	1	0.0	43.0	66	43.0	10	----	43.0	0.0	8	-8.0
ST4	4	1	0.0	62.4	66	62.4	10	----	62.4	0.0	8	-8.0
ST5	5	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		5	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Dudek MG				10 July 2019 TNM 2.5							
INPUT: ROADWAYS				PROJECT/CONTRACT: 10029.07			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
RUN:				Cambria Court Resi Carson - Future							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Roadway1	12.0	point1	1	1,044.5	2,084.7	25.00				Average	
		point3	3	1,347.1	2,083.9	25.00					
Neptune Avenue	12.0	point36	36	2,141.9	1,508.0	25.00				Average	
		point25	25	2,138.6	2,084.8	25.00					
Roadway1-2-2-2-2	12.0	point38	38	2,399.5	1,511.3	25.00				Average	
		point27	27	2,403.0	1,651.1	25.00				Average	
		point28	28	2,433.9	1,759.6	25.00				Average	
		point29	29	2,427.2	1,848.9	25.00				Average	
		point30	30	2,385.2	1,944.7	25.00				Average	
		point31	31	2,381.2	2,085.0	25.00					
Roadway1-2-2-2-2-2-2	12.0	point40	40	2,674.9	1,519.5	25.00				Average	
		point33	33	2,666.2	2,087.2	25.00				Average	
		point34	34	2,672.4	2,620.5	25.00				Average	
		point2	2	2,672.4	2,879.2	25.00					
Roadway1-2-2	12.0	point42	42	1,348.5	1,541.4	25.00				Average	
		point21	21	1,350.2	2,077.9	25.00				Average	
		point22	22	1,350.2	2,498.9	25.00				Average	
		point23	23	1,347.5	2,950.8	25.00					
Roadway1-2-2	12.0	point44	44	1,034.2	2,503.2	25.00				Average	
		point12	12	1,348.4	2,504.8	25.00					
Roadway1-2-2-2	12.0	point45	45	1,352.4	2,505.0	25.00				Average	
		point13	13	1,407.5	2,523.4	25.00				Average	
		point14	14	1,716.5	2,538.0	25.00				Average	
		point15	15	2,023.8	2,548.4	25.00				Average	
		point16	16	2,329.4	2,548.4	25.00				Average	

INPUT: ROADWAYS

10029.07

		point17	17	2,391.2	2,568.3	25.00				Average
		point18	18	2,531.7	2,623.0	25.00				Average
		point19	19	2,669.2	2,628.2	25.00				
East 220th St - Dolores to Neptune	32.0	point46	46	1,355.3	2,083.9	25.00				Average
		point4	4	1,833.6	2,088.2	25.00				Average
		point5	5	2,000.2	2,090.8	25.00				Average
		point6	6	2,140.1	2,088.7	25.00				
Roadway1-2-2	12.0	point47	47	2,674.8	2,091.5	25.00				Average
		point10	10	3,065.4	2,095.0	25.00				
East 220th St - Neptune to Grace	32.0	point48	48	2,140.1	2,088.7	25.00				Average
		point7	7	2,202.8	2,089.4	25.00				Average
		point8	8	2,395.0	2,090.8	25.00				Average
		point9	9	2,663.1	2,091.5	25.00				

INPUT: TRAFFIC FOR LAeq1h Percentages

10029.07

	point15	15	400	97	30	2	30	1	30	0	0	0	0
	point16	16	400	97	30	2	30	1	30	0	0	0	0
	point17	17	400	97	30	2	30	1	30	0	0	0	0
	point18	18	400	97	30	2	30	1	30	0	0	0	0
	point19	19											
East 220th St - Dolores to Neptune	point46	46	534	97	30	2	30	1	30	0	0	0	0
	point4	4	534	97	30	2	30	1	30	0	0	0	0
	point5	5	534	97	30	2	30	1	30	0	0	0	0
	point6	6											
Roadway1-2-2	point47	47	0	0	0	0	0	0	0	0	0	0	0
	point10	10											
East 220th St - Neptune to Grace	point48	48	526	97	30	2	30	1	30	0	0	0	0
	point7	7	526	97	30	2	30	1	30	0	0	0	0
	point8	8	526	97	30	2	30	1	30	0	0	0	0
	point9	9											

INPUT: RECEIVERS

10029.07

							10 July 2019					
Dudek							TNM 2.5					
MG												
INPUT: RECEIVERS												
PROJECT/CONTRACT:		10029.07										
RUN:		Cambria Court Resi Carson - Future										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST1	1	1	2,189.5	2,136.5	25.00	5.00	0.00	66	10.0	8.0	Y	
ST2	2	1	1,994.8	2,128.9	25.00	5.00	0.00	66	10.0	8.0	Y	
ST3	3	1	1,982.8	2,414.3	25.00	5.00	0.00	66	10.0	8.0	Y	
ST4	4	1	2,309.8	2,062.1	25.00	5.00	0.00	66	10.0	8.0	Y	
ST5	5	1	1,769.5	2,054.5	25.00	5.00	0.00	66	10.0	8.0	Y	

Dudek										10 July 2019									
MG										TNM 2.5									
INPUT: BARRIERS																			
PROJECT/CONTRACT:										10029.07									
RUN:										Cambria Court Resi Carson - Future									
Barrier										Points									
Name	Type	Height		If Wall \$ per Unit Area	If Berm \$ per Unit Vol.	Top Width	Run:Rise	Add'tnl \$ per Unit Length	Name	No.	Coordinates (bottom)			Height at Point	Segment				Important Reflec- tions?
		Min	Max								X	Y	Z		Seg Ince- ment	Ht	Perturbs #Up #Dn	On Struct?	
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Barrier1-2-2	W	0.00	99.99	0.00				0.00	point86	86	2,446.9	1,929.9	25.00	5.00	0.00	0	0		
									point17	17	2,448.0	1,963.8	25.00	5.00	0.00	0	0		
									point18	18	2,472.1	1,964.9	25.00	5.00					
Barrier1-2-2-2-2	W	0.00	99.99	0.00				0.00	point99	99	2,465.5	1,853.3	25.00	5.00	0.00	0	0		
									point20	20	2,466.6	1,909.1	25.00	5.00	0.00	0	0		
									point21	21	2,481.9	1,906.9	25.00	5.00					

INPUT: BUILDING ROWS

10029.07

Dudek								10 July 2019
MG								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	10029.07							
RUN:	Cambria Court Resi Carson - F							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building1	12.00	80	1	1,013.9	2,554.4	25.00		
			2	1,286.5	2,550.9	25.00		
			3	1,289.9	2,830.4	25.00		
Building2	12.00	80	4	1,392.3	2,703.6	25.00		
			5	1,390.6	2,575.2	25.00		
			6	1,996.5	2,583.9	25.00		
			7	2,343.7	2,589.1	25.00		
			8	2,510.4	2,653.3	25.00		
			9	2,621.5	2,686.3	25.00		
			10	2,619.8	2,856.4	25.00		
Building4	12.00	80	14	1,038.2	2,465.8	25.00		
			15	1,307.3	2,471.0	25.00		
			16	1,307.3	2,132.5	25.00		
			17	1,059.0	2,137.7	25.00		
Building5	12.00	80	18	1,387.9	2,138.3	25.00		
			19	1,375.3	2,420.7	25.00		
			20	1,406.0	2,418.5	25.00		
			21	1,402.7	2,486.3	25.00		
			22	1,780.0	2,488.5	25.00		
			23	1,985.6	2,504.9	25.00		
			24	2,315.9	2,509.3	25.00		
			25	2,404.5	2,510.3	25.00		
			26	2,498.5	2,558.5	25.00		
			27	2,636.3	2,584.7	25.00		

INPUT: BUILDING ROWS

10029.07

			28	2,640.7	2,125.4	25.00
			29	2,226.2	2,129.7	25.00
			30	2,225.7	2,341.7	25.00
Building6	12.00	80	31	2,173.2	2,347.2	25.00
			32	2,174.3	2,137.2	25.00
			33	2,021.2	2,131.7	25.00
			34	2,014.6	2,406.2	25.00
Building7	12.00	80	35	1,954.4	2,411.7	25.00
			36	1,961.0	2,136.1	25.00
			37	1,388.9	2,138.3	25.00
Building8	12.00	80	38	3,053.8	2,478.0	25.00
			39	2,701.4	2,481.4	25.00
			40	2,701.4	2,806.1	25.00
Building10	12.00	80	45	3,024.3	2,394.6	25.00
			46	2,699.6	2,398.1	25.00
			47	2,704.9	2,142.9	25.00
			48	2,994.8	2,144.6	25.00
Building11	12.00	80	49	2,707.9	1,734.7	25.00
			50	2,701.0	2,048.9	25.00
			51	3,037.8	2,045.5	25.00
			52	3,046.0	1,590.7	25.00
Building12	12.00	80	53	2,350.3	1,835.7	25.00
			54	2,340.4	2,052.3	25.00
			55	2,173.1	2,056.6	25.00
			56	2,176.4	1,829.2	25.00
Building13	12.00	80	57	2,093.2	1,843.4	25.00
			58	2,088.9	2,043.5	25.00
			59	1,969.7	2,042.4	25.00
			60	1,969.7	2,020.5	25.00
			61	1,852.6	2,020.5	25.00
			62	1,855.9	1,836.8	25.00
Building14	12.00	80	63	1,812.2	1,839.0	25.00
			64	1,815.5	2,035.9	25.00
			65	1,376.9	2,030.4	25.00
			66	1,374.7	1,968.1	25.00
Building15	12.00	80	67	1,298.6	1,733.2	25.00

INPUT: BUILDING ROWS**10029.07**

			68	1,302.1	2,042.2	25.00
			69	1,151.0	2,050.9	25.00

RESULTS: SOUND LEVELS

10029.07

Dudek										10 July 2019		
MG										TNM 2.5		
										Calculated with TNM 2.5		
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:										10029.07		
RUN:										Cambria Court Resi Carson - Future		
BARRIER DESIGN:										INPUT HEIGHTS		
										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.		
ATMOSPHERICS:										68 deg F, 50% RH		
Receiver												
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
				dB	dB	dB	dB		dB	dB	dB	dB
ST1	1	1	0.0	60.1	66	60.1	10	----	60.1	0.0	8	-8.0
ST2	2	1	0.0	61.2	66	61.2	10	----	61.2	0.0	8	-8.0
ST3	3	1	0.0	49.8	66	49.8	10	----	49.8	0.0	8	-8.0
ST4	4	1	0.0	62.6	66	62.6	10	----	62.6	0.0	8	-8.0
ST5	5	1	0.0	61.8	66	61.8	10	----	61.8	0.0	8	-8.0
Dwelling Units			# DUs	Noise Reduction								
				Min	Avg	Max						
				dB	dB	dB						
All Selected			5	0.0	0.0	0.0						
All Impacted			0	0.0	0.0	0.0						
All that meet NR Goal			0	0.0	0.0	0.0						

Dudek MG				10 July 2019 TNM 2.5							
INPUT: ROADWAYS				PROJECT/CONTRACT: 10029.07			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
RUN:				Cambria Court Resi Carson - Fut w Prj							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Roadway1	12.0	point1	1	1,044.5	2,084.7	25.00				Average	
		point3	3	1,347.1	2,083.9	25.00					
Roadway1-2-2	12.0	point36	36	2,141.9	1,508.0	25.00				Average	
		point25	25	2,138.6	2,084.8	25.00					
Roadway1-2-2-2-2	12.0	point38	38	2,399.5	1,511.3	25.00				Average	
		point27	27	2,403.0	1,651.1	25.00				Average	
		point28	28	2,433.9	1,759.6	25.00				Average	
		point29	29	2,427.2	1,848.9	25.00				Average	
		point30	30	2,385.2	1,944.7	25.00				Average	
		point31	31	2,381.2	2,085.0	25.00					
Roadway1-2-2-2-2-2-2	12.0	point40	40	2,674.9	1,519.5	25.00				Average	
		point33	33	2,666.2	2,087.2	25.00				Average	
		point34	34	2,672.4	2,620.5	25.00				Average	
		point2	2	2,672.4	2,879.2	25.00					
Roadway1-2-2	12.0	point42	42	1,348.5	1,541.4	25.00				Average	
		point21	21	1,350.2	2,077.9	25.00				Average	
		point22	22	1,350.2	2,498.9	25.00				Average	
		point23	23	1,347.5	2,950.8	25.00					
Roadway1-2-2	12.0	point44	44	1,034.2	2,503.2	25.00				Average	
		point12	12	1,348.4	2,504.8	25.00					
Roadway1-2-2-2	12.0	point45	45	1,352.4	2,505.0	25.00				Average	
		point13	13	1,407.5	2,523.4	25.00				Average	
		point14	14	1,716.5	2,538.0	25.00				Average	
		point15	15	2,023.8	2,548.4	25.00				Average	
		point16	16	2,329.4	2,548.4	25.00				Average	

INPUT: ROADWAYS

10029.07

		point17	17	2,391.2	2,568.3	25.00				Average
		point18	18	2,531.7	2,623.0	25.00				Average
		point19	19	2,669.2	2,628.2	25.00				
East 220th St - Dolores to Neptune	32.0	point46	46	1,355.3	2,083.9	25.00				Average
		point4	4	1,833.6	2,088.2	25.00				Average
		point5	5	2,000.2	2,090.8	25.00				Average
		point6	6	2,140.1	2,088.7	25.00				
Roadway1-2-2	12.0	point47	47	2,674.8	2,091.5	25.00				Average
		point10	10	3,065.4	2,095.0	25.00				
East 220th St - Neptune to Grace	32.0	point147	147	2,140.1	2,088.7	25.00				Average
		point7	7	2,202.8	2,089.4	25.00				Average
		point8	8	2,395.0	2,090.8	25.00				Average
		point9	9	2,663.1	2,091.5	25.00				

INPUT: TRAFFIC FOR LAeq1h Percentages

10029.07

	point15	15	400	97	30	2	30	1	30	0	0	0	0
	point16	16	400	97	30	2	30	1	30	0	0	0	0
	point17	17	400	97	30	2	30	1	30	0	0	0	0
	point18	18	400	97	30	2	30	1	30	0	0	0	0
	point19	19											
East 220th St - Dolores to Neptune	point46	46	547	97	30	2	30	1	30	0	0	0	0
	point4	4	547	97	30	2	30	1	30	0	0	0	0
	point5	5	547	97	30	2	30	1	30	0	0	0	0
	point6	6											
Roadway1-2-2	point47	47	0	0	0	0	0	0	0	0	0	0	0
	point10	10											
East 220th St - Neptune to Grace	point147	147	542	97	30	2	30	1	30	0	0	0	0
	point7	7	542	97	30	2	30	1	30	0	0	0	0
	point8	8	542	97	30	2	30	1	30	0	0	0	0
	point9	9											

INPUT: RECEIVERS

10029.07

							10 July 2019					
Dudek							TNM 2.5					
MG												
INPUT: RECEIVERS												
PROJECT/CONTRACT:		10029.07										
RUN:		Cambria Court Resi Carson - Fut w Prj										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST1	1	1	2,189.5	2,136.5	25.00	5.00	0.00	66	10.0	8.0	Y	
ST2	2	1	1,994.8	2,128.9	25.00	5.00	0.00	66	10.0	8.0	Y	
ST3	3	1	1,982.8	2,414.3	25.00	5.00	0.00	66	10.0	8.0	Y	
ST4	4	1	2,309.8	2,062.1	25.00	5.00	0.00	66	10.0	8.0	Y	
ST5	5	1	1,769.5	2,054.5	25.00	5.00	0.00	66	10.0	8.0	Y	
M1	7	1	2,039.3	2,210.1	25.00	5.00	0.00	66	10.0	8.0	Y	

Dudek MG									10 July 2019 TNM 2.5									
INPUT: BARRIERS																		
PROJECT/CONTRACT: 10029.07																		
RUN: Cambria Court Resi Carson - Fut w Prj																		
Barrier									Points									
Name	Type	Height		If Wall	If Berm		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	Run:Rise	\$ per Unit Length		X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft		ft	ft	ft	ft	ft				
Barrier1-2-2	W	0.00	99.99	0.00				0.00	point86	86	2,446.9	1,929.9	25.00	5.00	0.00	0	0	
									point17	17	2,448.0	1,963.8	25.00	5.00	0.00	0	0	
									point18	18	2,472.1	1,964.9	25.00	5.00				
Barrier1-2-2-2-2	W	0.00	99.99	0.00				0.00	point99	99	2,465.5	1,853.3	25.00	5.00	0.00	0	0	
									point20	20	2,466.6	1,909.1	25.00	5.00	0.00	0	0	
									point21	21	2,481.9	1,906.9	25.00	5.00				
Barrier30	W	0.00	99.99	0.00				0.00	point100	100	2,084.2	2,178.1	25.00	15.00	0.00	0	0	
									point102	102	2,084.6	2,145.6	25.00	15.00	0.00	0	0	
									point103	103	2,118.9	2,145.2	25.00	15.00	0.00	0	0	
									point104	104	2,118.5	2,180.3	25.00	15.00				
Barrier30-2-2	W	0.00	99.99	0.00				0.00	point241	241	2,023.6	2,317.6	25.00	15.00	0.00	0	0	
									point134	134	2,024.0	2,281.5	25.00	15.00	0.00	0	0	
									point135	135	2,058.3	2,282.8	25.00	15.00	0.00	0	0	
									point136	136	2,058.3	2,317.6	25.00	15.00				
Barrier30-2-2	W	0.00	99.99	0.00				0.00	point243	243	2,083.7	2,227.2	25.00	15.00	0.00	0	0	
									point106	106	2,084.6	2,192.9	25.00	15.00	0.00	0	0	
									point107	107	2,118.1	2,192.0	25.00	15.00	0.00	0	0	
									point108	108	2,118.5	2,227.6	25.00	15.00				
Barrier30-2-2-2-2	W	0.00	99.99	0.00				0.00	point245	245	2,146.7	2,180.7	25.00	15.00	0.00	0	0	
									point110	110	2,147.1	2,145.2	25.00	15.00	0.00	0	0	
									point111	111	2,181.2	2,145.7	25.00	15.00				
Barrier30-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point246	246	2,181.2	2,145.7	25.00	15.00	0.00	0	0	
									point112	112	2,180.6	2,180.7	25.00	15.00				
Barrier30-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point247	247	2,204.9	2,180.7	25.00	15.00	0.00	0	0	
									point122	122	2,204.9	2,146.4	25.00	15.00	0.00	0	0	
									point123	123	2,239.1	2,146.4	25.00	15.00	0.00	0	0	
									point124	124	2,239.1	2,182.0	25.00	15.00				
Barrier30-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point250	250	2,146.3	2,227.2	25.00	15.00	0.00	0	0	
									point114	114	2,147.1	2,191.1	25.00	15.00	0.00	0	0	
									point115	115	2,180.1	2,192.0	25.00	15.00	0.00	0	0	
									point116	116	2,180.6	2,227.2	25.00	15.00				
Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point252	252	2,204.4	2,226.7	25.00	15.00	0.00	0	0	
									point118	118	2,205.3	2,191.1	25.00	15.00	0.00	0	0	
									point119	119	2,238.3	2,192.0	25.00	15.00	0.00	0	0	
									point120	120	2,238.7	2,227.2	25.00	15.00				

INPUT: BARRIERS

10029.07

Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point256	256	2,277.1	2,227.1	25.00	15.00	0.00	0	0		
									point130	130	2,277.1	2,191.8	25.00	15.00	0.00	0	0		
									point131	131	2,311.9	2,191.3	25.00	15.00	0.00	0	0		
									point132	132	2,311.9	2,227.1	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point258	258	2,277.7	2,181.2	25.00	15.00	0.00	0	0		
									point126	126	2,277.7	2,145.3	25.00	15.00	0.00	0	0		
									point127	127	2,312.4	2,145.1	25.00	15.00	0.00	0	0		
									point128	128	2,312.1	2,180.6	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2	W	0.00	99.99	0.00				0.00	point260	260	1,810.0	2,316.7	25.00	15.00	0.00	0	0		
									point194	194	1,810.4	2,280.7	25.00	15.00	0.00	0	0		
									point195	195	1,844.3	2,281.1	25.00	15.00	0.00	0	0		
									point196	196	1,844.3	2,317.6	25.00	15.00	0.00	0	0		
Barrier31-2	W	0.00	99.99	0.00				0.00	point261	261	1,811.3	2,406.8	25.00	15.00	0.00	0	0		
									point202	202	1,811.8	2,370.7	25.00	15.00	0.00	0	0		
									point203	203	1,845.6	2,371.2	25.00	15.00	0.00	0	0		
									point204	204	1,845.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2	W	0.00	99.99	0.00				0.00	point263	263	1,872.2	2,315.8	25.00	15.00	0.00	0	0		
									point206	206	1,872.6	2,279.8	25.00	15.00	0.00	0	0		
									point207	207	1,906.5	2,280.2	25.00	15.00	0.00	0	0		
									point208	208	1,906.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point265	265	1,810.9	2,360.2	25.00	15.00	0.00	0	0		
									point198	198	1,811.3	2,324.2	25.00	15.00	0.00	0	0		
									point101	101	1,845.2	2,324.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point267	267	1,872.2	2,406.8	25.00	15.00	0.00	0	0		
									point214	214	1,872.6	2,370.7	25.00	15.00	0.00	0	0		
									point215	215	1,906.5	2,371.2	25.00	15.00	0.00	0	0		
									point216	216	1,906.5	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point269	269	1,872.2	2,360.6	25.00	15.00	0.00	0	0		
									point210	210	1,872.6	2,324.6	25.00	15.00	0.00	0	0		
									point211	211	1,906.5	2,325.0	25.00	15.00	0.00	0	0		
									point212	212	1,906.5	2,361.5	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point271	271	1,916.5	2,316.2	25.00	15.00	0.00	0	0		
									point218	218	1,917.0	2,280.2	25.00	15.00	0.00	0	0		
									point219	219	1,950.9	2,280.7	25.00	15.00	0.00	0	0		
									point220	220	1,950.9	2,317.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point273	273	1,918.3	2,406.8	25.00	15.00	0.00	0	0		
									point226	226	1,918.7	2,370.7	25.00	15.00	0.00	0	0		
									point227	227	1,952.6	2,371.2	25.00	15.00	0.00	0	0		
									point228	228	1,952.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point275	275	1,916.5	2,360.2	25.00	15.00	0.00	0	0		
									point222	222	1,917.0	2,324.2	25.00	15.00	0.00	0	0		
									point223	223	1,950.9	2,324.6	25.00	15.00	0.00	0	0		
									point224	224	1,950.9	2,361.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point277	277	1,979.2	2,315.8	25.00	15.00	0.00	0	0		
									point230	230	1,979.6	2,279.8	25.00	15.00	0.00	0	0		
									point231	231	2,013.5	2,280.2	25.00	15.00	0.00	0	0		
									point232	232	2,013.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point279	279	1,980.0	2,406.3	25.00	15.00	0.00	0	0		
									point238	238	1,980.5	2,370.3	25.00	15.00	0.00	0	0		

INPUT: BARRIERS

10029.07

									point333	333	1,800.3	2,280.7	25.00	6.00	0.00	0	0		
									point334	334	1,800.3	2,247.5	25.00	6.00	0.00	0	0		
									point335	335	1,842.4	2,247.2	25.00	6.00	0.00	0	0		
									point336	336	1,842.4	2,232.5	25.00	6.00	0.00	0	0		
									point337	337	1,883.6	2,232.5	25.00	6.00	0.00	0	0		
									point338	338	1,883.9	2,221.4	25.00	6.00	0.00	0	0		
									point339	339	1,980.2	2,222.3	25.00	6.00	0.00	0	0		
									point340	340	1,979.9	2,144.8	25.00	6.00					

INPUT: BUILDING ROWS

10029.07

Dudek								10 July 2019
MG								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	10029.07							
RUN:	Cambria Court Resi Carson - F							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building1	12.00	80	1	1,013.9	2,554.4	25.00		
			2	1,286.5	2,550.9	25.00		
			3	1,289.9	2,830.4	25.00		
Building2	12.00	80	4	1,392.3	2,703.6	25.00		
			5	1,390.6	2,575.2	25.00		
			6	1,996.5	2,583.9	25.00		
			7	2,343.7	2,589.1	25.00		
			8	2,510.4	2,653.3	25.00		
			9	2,621.5	2,686.3	25.00		
			10	2,619.8	2,856.4	25.00		
Building4	12.00	80	14	1,038.2	2,465.8	25.00		
			15	1,307.3	2,471.0	25.00		
			16	1,307.3	2,132.5	25.00		
			17	1,059.0	2,137.7	25.00		
Building5	12.00	80	18	1,387.9	2,138.3	25.00		
			19	1,375.3	2,420.7	25.00		
			20	1,406.0	2,418.5	25.00		
			21	1,402.7	2,486.3	25.00		
			22	1,780.0	2,488.5	25.00		
			23	1,985.6	2,504.9	25.00		
			24	2,315.9	2,509.3	25.00		
			25	2,404.5	2,510.3	25.00		
			26	2,498.5	2,558.5	25.00		
			27	2,636.3	2,584.7	25.00		

INPUT: BUILDING ROWS

10029.07

			28	2,640.7	2,125.4	25.00
			29	2,343.0	2,128.3	25.00
Building8	12.00	80	38	3,053.8	2,478.0	25.00
			39	2,701.4	2,481.4	25.00
			40	2,701.4	2,806.1	25.00
Building10	12.00	80	45	3,024.3	2,394.6	25.00
			46	2,699.6	2,398.1	25.00
			47	2,704.9	2,142.9	25.00
			48	2,994.8	2,144.6	25.00
Building11	12.00	80	49	2,707.9	1,734.7	25.00
			50	2,701.0	2,048.9	25.00
			51	3,037.8	2,045.5	25.00
			52	3,046.0	1,590.7	25.00
Building12	12.00	80	53	2,350.3	1,835.7	25.00
			54	2,340.4	2,052.3	25.00
			55	2,173.1	2,056.6	25.00
			56	2,176.4	1,829.2	25.00
Building13	12.00	80	57	2,093.2	1,843.4	25.00
			58	2,088.9	2,043.5	25.00
			59	1,969.7	2,042.4	25.00
			60	1,969.7	2,020.5	25.00
			61	1,852.6	2,020.5	25.00
			62	1,855.9	1,836.8	25.00
Building14	12.00	80	63	1,812.2	1,839.0	25.00
			64	1,815.5	2,035.9	25.00
			65	1,376.9	2,030.4	25.00
			66	1,374.7	1,968.1	25.00
Building15	12.00	80	67	1,298.6	1,733.2	25.00
			68	1,302.1	2,042.2	25.00
			69	1,151.0	2,050.9	25.00
Building7-2	12.00	80	70	1,961.0	2,136.1	25.00
			37	1,388.9	2,138.3	25.00

RESULTS: SOUND LEVELS

10029.07

Dudek													10 July 2019																							
MG													TNM 2.5																							
													Calculated with TNM 2.5																							
RESULTS: SOUND LEVELS																																				
PROJECT/CONTRACT:													10029.07																							
RUN:													Cambria Court Resi Carson - Fut w Prj																							
BARRIER DESIGN:													INPUT HEIGHTS																							
													Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.																							
ATMOSPHERICS:													68 deg F, 50% RH																							
Receiver																																				
Name													No.		#DUs		Existing		No Barrier		With Barrier															
															LAeq1h		LAeq1h		Increase over existing		Type		Calculated		Noise Reduction											
																	Calculated		Crit'n		Calculated		Crit'n		Impact		LAeq1h		Calculated		Goal		Calculated			
																													minus		Goal					
															dBA		dBA		dBA		dB		dB				dBA		dB		dB		dB			
ST1													1		1		0.0		60.3		66		60.3		10		----		60.3		0.0		8		-8.0	
ST2													2		1		0.0		61.3		66		61.3		10		----		61.3		0.0		8		-8.0	
ST3													3		1		0.0		43.0		66		43.0		10		----		43.0		0.0		8		-8.0	
ST4													4		1		0.0		62.7		66		62.7		10		----		62.7		0.0		8		-8.0	
ST5													5		1		0.0		61.9		66		61.9		10		----		61.9		0.0		8		-8.0	
M1													7		1		0.0		45.7		66		45.7		10		----		45.7		0.0		8		-8.0	
Dwelling Units													# DUs		Noise Reduction																					
															Min		Avg		Max																	
															dB		dB		dB																	
All Selected															6		0.0		0.0		0.0															
All Impacted															0		0.0		0.0		0.0															
All that meet NR Goal															0		0.0		0.0		0.0															

Dudek MG				10 July 2019 TNM 2.5							
INPUT: ROADWAYS				PROJECT/CONTRACT: 10029.07			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
RUN:				Cambria Court Resi Carson - Fut w Prj 2n							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Roadway1	12.0	point1	1	1,044.5	2,084.7	25.00				Average	
		point3	3	1,347.1	2,083.9	25.00					
Roadway1-2-2	12.0	point36	36	2,141.9	1,508.0	25.00				Average	
		point25	25	2,138.6	2,084.8	25.00					
Roadway1-2-2-2-2	12.0	point38	38	2,399.5	1,511.3	25.00				Average	
		point27	27	2,403.0	1,651.1	25.00				Average	
		point28	28	2,433.9	1,759.6	25.00				Average	
		point29	29	2,427.2	1,848.9	25.00				Average	
		point30	30	2,385.2	1,944.7	25.00				Average	
		point31	31	2,381.2	2,085.0	25.00					
Roadway1-2-2-2-2-2	12.0	point40	40	2,674.9	1,519.5	25.00				Average	
		point33	33	2,666.2	2,087.2	25.00				Average	
		point34	34	2,672.4	2,620.5	25.00				Average	
		point2	2	2,672.4	2,879.2	25.00					
Roadway1-2-2	12.0	point42	42	1,348.5	1,541.4	25.00				Average	
		point21	21	1,350.2	2,077.9	25.00				Average	
		point22	22	1,350.2	2,498.9	25.00				Average	
		point23	23	1,347.5	2,950.8	25.00					
Roadway1-2-2	12.0	point44	44	1,034.2	2,503.2	25.00				Average	
		point12	12	1,348.4	2,504.8	25.00					
Roadway1-2-2-2	12.0	point45	45	1,352.4	2,505.0	25.00				Average	
		point13	13	1,407.5	2,523.4	25.00				Average	
		point14	14	1,716.5	2,538.0	25.00				Average	
		point15	15	2,023.8	2,548.4	25.00				Average	
		point16	16	2,329.4	2,548.4	25.00				Average	

INPUT: ROADWAYS

10029.07

		point17	17	2,391.2	2,568.3	25.00				Average	
		point18	18	2,531.7	2,623.0	25.00				Average	
		point19	19	2,669.2	2,628.2	25.00					
East 220th St - Dolores to Neptune	32.0	point46	46	1,355.3	2,083.9	25.00				Average	
		point4	4	1,833.6	2,088.2	25.00				Average	
		point5	5	2,000.2	2,090.8	25.00				Average	
		point6	6	2,140.1	2,088.7	25.00					
Roadway1-2-2	12.0	point47	47	2,674.8	2,091.5	25.00				Average	
		point10	10	3,065.4	2,095.0	25.00					
East 220th St - Neptune to Grace	32.0	point147	147	2,140.1	2,088.7	25.00				Average	
		point7	7	2,202.8	2,089.4	25.00				Average	
		point8	8	2,395.0	2,090.8	25.00				Average	
		point9	9	2,663.1	2,091.5	25.00					

INPUT: TRAFFIC FOR LAeq1h Percentages

10029.07

	point15	15	400	97	30	2	30	1	30	0	0	0	0
	point16	16	400	97	30	2	30	1	30	0	0	0	0
	point17	17	400	97	30	2	30	1	30	0	0	0	0
	point18	18	400	97	30	2	30	1	30	0	0	0	0
	point19	19											
East 220th St - Dolores to Neptune	point46	46	547	97	30	2	30	1	30	0	0	0	0
	point4	4	547	97	30	2	30	1	30	0	0	0	0
	point5	5	547	97	30	2	30	1	30	0	0	0	0
	point6	6											
Roadway1-2-2	point47	47	0	0	0	0	0	0	0	0	0	0	0
	point10	10											
East 220th St - Neptune to Grace	point147	147	542	97	30	2	30	1	30	0	0	0	0
	point7	7	542	97	30	2	30	1	30	0	0	0	0
	point8	8	542	97	30	2	30	1	30	0	0	0	0
	point9	9											

INPUT: RECEIVERS

10029.07

							10 July 2019				
Dudek							TNM 2.5				
MG											
INPUT: RECEIVERS											
PROJECT/CONTRACT:		10029.07									
RUN:		Cambria Court Resi Carson - Fut w Prj 2n									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1- 2nd Flr	1	1	2,189.5	2,136.5	25.00	15.00	0.00	66	10.0	8.0	Y
ST2	2	1	1,994.8	2,128.9	25.00	5.00	0.00	66	10.0	8.0	
ST3 - 2nd Flr	3	1	1,982.8	2,414.3	25.00	15.00	0.00	66	10.0	8.0	Y
ST4	4	1	2,309.8	2,062.1	25.00	5.00	0.00	66	10.0	8.0	
ST5	5	1	1,769.5	2,054.5	25.00	5.00	0.00	66	10.0	8.0	
M1	7	1	2,039.3	2,210.1	25.00	5.00	0.00	66	10.0	8.0	

INPUT: BARRIERS

10029.07

Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point256	256	2,277.1	2,227.1	25.00	15.00	0.00	0	0		
									point130	130	2,277.1	2,191.8	25.00	15.00	0.00	0	0		
									point131	131	2,311.9	2,191.3	25.00	15.00	0.00	0	0		
									point132	132	2,311.9	2,227.1	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point258	258	2,277.7	2,181.2	25.00	15.00	0.00	0	0		
									point126	126	2,277.7	2,145.3	25.00	15.00	0.00	0	0		
									point127	127	2,312.4	2,145.1	25.00	15.00	0.00	0	0		
									point128	128	2,312.1	2,180.6	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2	W	0.00	99.99	0.00				0.00	point260	260	1,810.0	2,316.7	25.00	15.00	0.00	0	0		
									point194	194	1,810.4	2,280.7	25.00	15.00	0.00	0	0		
									point195	195	1,844.3	2,281.1	25.00	15.00	0.00	0	0		
									point196	196	1,844.3	2,317.6	25.00	15.00	0.00	0	0		
Barrier31-2	W	0.00	99.99	0.00				0.00	point261	261	1,811.3	2,406.8	25.00	15.00	0.00	0	0		
									point202	202	1,811.8	2,370.7	25.00	15.00	0.00	0	0		
									point203	203	1,845.6	2,371.2	25.00	15.00	0.00	0	0		
									point204	204	1,845.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2	W	0.00	99.99	0.00				0.00	point263	263	1,872.2	2,315.8	25.00	15.00	0.00	0	0		
									point206	206	1,872.6	2,279.8	25.00	15.00	0.00	0	0		
									point207	207	1,906.5	2,280.2	25.00	15.00	0.00	0	0		
									point208	208	1,906.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier30-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point265	265	1,810.9	2,360.2	25.00	15.00	0.00	0	0		
									point198	198	1,811.3	2,324.2	25.00	15.00	0.00	0	0		
									point101	101	1,845.2	2,324.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point267	267	1,872.2	2,406.8	25.00	15.00	0.00	0	0		
									point214	214	1,872.6	2,370.7	25.00	15.00	0.00	0	0		
									point215	215	1,906.5	2,371.2	25.00	15.00	0.00	0	0		
									point216	216	1,906.5	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point269	269	1,872.2	2,360.6	25.00	15.00	0.00	0	0		
									point210	210	1,872.6	2,324.6	25.00	15.00	0.00	0	0		
									point211	211	1,906.5	2,325.0	25.00	15.00	0.00	0	0		
									point212	212	1,906.5	2,361.5	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point271	271	1,916.5	2,316.2	25.00	15.00	0.00	0	0		
									point218	218	1,917.0	2,280.2	25.00	15.00	0.00	0	0		
									point219	219	1,950.9	2,280.7	25.00	15.00	0.00	0	0		
									point220	220	1,950.9	2,317.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point273	273	1,918.3	2,406.8	25.00	15.00	0.00	0	0		
									point226	226	1,918.7	2,370.7	25.00	15.00	0.00	0	0		
									point227	227	1,952.6	2,371.2	25.00	15.00	0.00	0	0		
									point228	228	1,952.6	2,407.6	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point275	275	1,916.5	2,360.2	25.00	15.00	0.00	0	0		
									point222	222	1,917.0	2,324.2	25.00	15.00	0.00	0	0		
									point223	223	1,950.9	2,324.6	25.00	15.00	0.00	0	0		
									point224	224	1,950.9	2,361.1	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point277	277	1,979.2	2,315.8	25.00	15.00	0.00	0	0		
									point230	230	1,979.6	2,279.8	25.00	15.00	0.00	0	0		
									point231	231	2,013.5	2,280.2	25.00	15.00	0.00	0	0		
									point232	232	2,013.5	2,316.7	25.00	15.00	0.00	0	0		
Barrier31-2-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point279	279	1,980.0	2,406.3	25.00	15.00	0.00	0	0		
									point238	238	1,980.5	2,370.3	25.00	15.00	0.00	0	0		

INPUT: BARRIERS

10029.07

									point333	333	1,800.3	2,280.7	25.00	6.00	0.00	0	0		
									point334	334	1,800.3	2,247.5	25.00	6.00	0.00	0	0		
									point335	335	1,842.4	2,247.2	25.00	6.00	0.00	0	0		
									point336	336	1,842.4	2,232.5	25.00	6.00	0.00	0	0		
									point337	337	1,883.6	2,232.5	25.00	6.00	0.00	0	0		
									point338	338	1,883.9	2,221.4	25.00	6.00	0.00	0	0		
									point339	339	1,980.2	2,222.3	25.00	6.00	0.00	0	0		
									point340	340	1,979.9	2,144.8	25.00	6.00					

INPUT: BUILDING ROWS

10029.07

Dudek								10 July 2019
MG								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	10029.07							
RUN:	Cambria Court Resi Carson - F							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building1	12.00	80	1	1,013.9	2,554.4	25.00		
			2	1,286.5	2,550.9	25.00		
			3	1,289.9	2,830.4	25.00		
Building2	12.00	80	4	1,392.3	2,703.6	25.00		
			5	1,390.6	2,575.2	25.00		
			6	1,996.5	2,583.9	25.00		
			7	2,343.7	2,589.1	25.00		
			8	2,510.4	2,653.3	25.00		
			9	2,621.5	2,686.3	25.00		
			10	2,619.8	2,856.4	25.00		
Building4	12.00	80	14	1,038.2	2,465.8	25.00		
			15	1,307.3	2,471.0	25.00		
			16	1,307.3	2,132.5	25.00		
			17	1,059.0	2,137.7	25.00		
Building5	12.00	80	18	1,387.9	2,138.3	25.00		
			19	1,375.3	2,420.7	25.00		
			20	1,406.0	2,418.5	25.00		
			21	1,402.7	2,486.3	25.00		
			22	1,780.0	2,488.5	25.00		
			23	1,985.6	2,504.9	25.00		
			24	2,315.9	2,509.3	25.00		
			25	2,404.5	2,510.3	25.00		
			26	2,498.5	2,558.5	25.00		
			27	2,636.3	2,584.7	25.00		

INPUT: BUILDING ROWS

10029.07

			28	2,640.7	2,125.4	25.00
			29	2,343.0	2,128.3	25.00
Building8	12.00	80	38	3,053.8	2,478.0	25.00
			39	2,701.4	2,481.4	25.00
			40	2,701.4	2,806.1	25.00
Building10	12.00	80	45	3,024.3	2,394.6	25.00
			46	2,699.6	2,398.1	25.00
			47	2,704.9	2,142.9	25.00
			48	2,994.8	2,144.6	25.00
Building11	12.00	80	49	2,707.9	1,734.7	25.00
			50	2,701.0	2,048.9	25.00
			51	3,037.8	2,045.5	25.00
			52	3,046.0	1,590.7	25.00
Building12	12.00	80	53	2,350.3	1,835.7	25.00
			54	2,340.4	2,052.3	25.00
			55	2,173.1	2,056.6	25.00
			56	2,176.4	1,829.2	25.00
Building13	12.00	80	57	2,093.2	1,843.4	25.00
			58	2,088.9	2,043.5	25.00
			59	1,969.7	2,042.4	25.00
			60	1,969.7	2,020.5	25.00
			61	1,852.6	2,020.5	25.00
			62	1,855.9	1,836.8	25.00
Building14	12.00	80	63	1,812.2	1,839.0	25.00
			64	1,815.5	2,035.9	25.00
			65	1,376.9	2,030.4	25.00
			66	1,374.7	1,968.1	25.00
Building15	12.00	80	67	1,298.6	1,733.2	25.00
			68	1,302.1	2,042.2	25.00
			69	1,151.0	2,050.9	25.00
Building7-2	12.00	80	70	1,961.0	2,136.1	25.00
			37	1,388.9	2,138.3	25.00

RESULTS: SOUND LEVELS

10029.07

Dudek												
MG												
10 July 2019												
TNM 2.5												
Calculated with TNM 2.5												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		10029.07										
RUN:		Cambria Court Resi Carson - Fut w Prj 2n										
BARRIER DESIGN:		INPUT HEIGHTS										
ATMOSPHERICS:		68 deg F, 50% RH										
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
ST1- 2nd Flr	1	1	0.0	60.2	66	60.2	10	----	60.2	0.0	8	-8.0
ST2	2	1	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
ST3 - 2nd Flr	3	1	0.0	53.6	66	53.6	10	----	53.6	0.0	8	-8.0
ST4	4	1	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
ST5	5	1	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
M1	7	1	0.0	0.0	66	0.0	10	inactive	0.0	0.0	8	0.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		6	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: ROADWAYS

10029.07

		point17	17	2,391.2	2,568.3	25.00				Average
		point18	18	2,531.7	2,623.0	25.00				Average
		point19	19	2,669.2	2,628.2	25.00				
East 220th St - Dolores to Neptune	32.0	point46	46	1,355.3	2,083.9	25.00				Average
		point4	4	1,833.6	2,088.2	25.00				Average
		point5	5	2,000.2	2,090.8	25.00				Average
		point6	6	2,140.1	2,088.7	25.00				
Roadway1-2-2	12.0	point47	47	2,674.8	2,091.5	25.00				Average
		point10	10	3,065.4	2,095.0	25.00				
East 220th St - Neptune to Grace	32.0	point48	48	2,140.1	2,088.7	25.00				Average
		point7	7	2,202.8	2,089.4	25.00				Average
		point8	8	2,395.0	2,090.8	25.00				Average
		point9	9	2,663.1	2,091.5	25.00				

Appendix D

Transportation

Existing Traffic Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: Dolores St & 220th St
City: Carson
Control: Signalized

Project ID: 19-05358-001
Date: 6/4/2019

Total

NS/EW Streets:	Dolores St				Dolores St				220th St				220th St				TOTAL				
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND								
AM	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU					
7:00 AM	9	21	1	0	2	7	9	0	8	23	2	0	1	26	0	0					109
7:15 AM	10	32	1	0	4	33	15	0	7	30	4	0	6	37	3	0					182
7:30 AM	18	44	9	0	12	53	27	0	4	30	9	0	11	53	1	0					271
7:45 AM	30	66	10	0	3	86	34	0	9	36	22	0	14	74	7	0					391
8:00 AM	34	65	10	1	3	25	18	0	16	36	19	0	2	55	12	0					296
8:15 AM	15	42	4	0	4	18	13	0	8	37	14	0	4	34	1	0					194
8:30 AM	8	25	3	0	2	20	10	0	5	24	8	0	2	23	4	0					134
8:45 AM	3	27	2	0	2	22	7	0	3	25	4	0	1	18	4	0					118
TOTAL VOLUMES :	127	322	40	1	32	264	133	0	60	241	82	0	41	320	32	0					1695
APPROACH %'s :	25.92%	65.71%	8.16%	0.20%	7.46%	61.54%	31.00%	0.00%	15.67%	62.92%	21.41%	0.00%	10.43%	81.42%	8.14%	0.00%					
PEAK HR :	07:30 AM - 08:30 AM																TOTAL				
PEAK HR VOL :	97	217	33	1	22	182	92	0	37	139	64	0	31	216	21	0					1152
PEAK HR FACTOR :	0.713	0.822	0.825	0.250	0.458	0.529	0.676	0.000	0.578	0.939	0.727	0.000	0.554	0.730	0.438	0.000					0.737
	0.791				0.602				0.845				0.705								

NS/EW Streets:	Dolores St				Dolores St				220th St				220th St				TOTAL				
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND								
PM	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU					
4:00 PM	1	42	6	0	6	41	8	0	9	42	12	0	7	30	2	0					206
4:15 PM	8	31	7	0	4	32	8	0	8	40	16	0	5	28	9	0					196
4:30 PM	7	28	7	0	7	39	10	0	19	93	10	0	5	43	4	0					272
4:45 PM	7	28	3	0	9	37	11	0	18	61	9	0	3	29	8	0					223
5:00 PM	7	35	5	0	4	31	7	0	12	65	8	0	2	40	5	0					221
5:15 PM	4	46	3	0	5	46	4	0	14	92	15	0	2	23	6	0					260
5:30 PM	6	38	8	0	12	38	9	0	14	77	11	0	3	35	5	0					256
5:45 PM	6	30	7	0	5	47	13	0	9	66	18	0	8	33	8	0					250
TOTAL VOLUMES :	46	278	46	0	52	311	70	0	103	536	99	0	35	261	47	0					1884
APPROACH %'s :	12.43%	75.14%	12.43%	0.00%	12.01%	71.82%	16.17%	0.00%	13.96%	72.63%	13.41%	0.00%	10.20%	76.09%	13.70%	0.00%					
PEAK HR :	05:00 PM - 06:00 PM																TOTAL				
PEAK HR VOL :	23	149	23	0	26	162	33	0	49	300	52	0	15	131	24	0					987
PEAK HR FACTOR :	0.821	0.810	0.719	0.000	0.542	0.862	0.635	0.000	0.875	0.815	0.722	0.000	0.469	0.819	0.750	0.000					0.949
	0.920				0.850				0.829				0.867								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Grace Ave & 220th St
City: Carson
Control: 4-Way Stop

Project ID: 19-05358-002
Date: 6/4/2019

Total

NS/EW Streets:	Grace Ave				Grace Ave				220th St				220th St				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	
7:00 AM	7	5	0	0	1	7	5	0	7	21	1	0	4	14	0	0	72
7:15 AM	8	9	2	0	4	10	9	0	10	27	6	0	3	27	6	0	121
7:30 AM	12	18	5	0	4	14	9	0	9	52	6	0	4	52	3	0	188
7:45 AM	18	38	17	0	11	27	10	0	12	41	3	0	3	53	12	0	245
8:00 AM	12	28	7	0	8	13	5	0	8	36	3	0	3	41	8	0	172
8:15 AM	3	22	5	0	1	9	2	0	7	31	3	0	2	26	3	0	114
8:30 AM	1	12	4	0	5	8	2	0	5	22	2	0	5	22	4	0	92
8:45 AM	3	8	5	0	4	10	5	1	6	25	1	0	1	11	0	0	80
TOTAL VOLUMES :	64	140	45	0	38	98	47	1	64	255	25	0	25	246	36	0	1084
APPROACH %'s :	25.70%	56.22%	18.07%	0.00%	20.65%	53.26%	25.54%	0.54%	18.60%	74.13%	7.27%	0.00%	8.14%	80.13%	11.73%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	50	93	31	0	27	64	33	0	39	156	18	0	13	173	29	0	726
PEAK HR FACTOR :	0.694	0.612	0.456	0.000	0.614	0.593	0.825	0.000	0.813	0.750	0.750	0.000	0.813	0.816	0.604	0.000	0.741
	0.596				0.646				0.795				0.790				
PM	0 NL	1 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	
4:00 PM	3	19	4	0	6	12	5	0	7	41	3	0	1	28	5	0	134
4:15 PM	1	10	6	1	7	17	5	0	14	38	1	0	4	33	3	0	140
4:30 PM	3	13	9	0	4	11	11	0	17	72	11	0	0	32	3	0	186
4:45 PM	2	20	8	0	10	14	8	0	8	48	5	0	2	27	5	0	157
5:00 PM	4	25	9	0	8	7	7	0	9	55	6	0	0	34	3	0	167
5:15 PM	4	13	2	0	5	21	0	0	8	75	6	0	3	22	2	0	161
5:30 PM	3	20	4	0	9	22	12	0	20	63	7	0	3	33	2	0	198
5:45 PM	6	16	5	0	14	20	9	0	13	56	7	0	1	23	3	0	173
TOTAL VOLUMES :	26	136	47	1	63	124	57	0	96	448	46	0	14	232	26	0	1316
APPROACH %'s :	12.38%	64.76%	22.38%	0.48%	25.82%	50.82%	23.36%	0.00%	16.27%	75.93%	7.80%	0.00%	5.15%	85.29%	9.56%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	17	74	20	0	36	70	28	0	50	249	26	0	7	112	10	0	699
PEAK HR FACTOR :	0.708	0.740	0.556	0.000	0.643	0.795	0.583	0.000	0.625	0.830	0.929	0.000	0.583	0.824	0.833	0.000	0.883
	0.730				0.779				0.903				0.849				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Avalon Blvd & 220th St
City: Carson
Control: Signalized

Project ID: 19-05358-003
Date: 6/4/2019

Total

NS/EW Streets:	Avalon Blvd				Avalon Blvd				220th St				220th St				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	1 NL	2 NT	0 NR	0 NU	1 SL	2 ST	0 SR	0 SU	1 EL	1 ET	0 ER	0 EU	1 WL	1 WT	0 WR	0 WU	
7:00 AM	1	144	5	0	8	124	3	2	12	5	5	1	7	8	3	0	328
7:15 AM	4	169	12	0	13	157	12	1	19	6	6	0	7	13	11	0	430
7:30 AM	9	208	17	0	13	185	16	3	21	22	10	0	13	20	21	0	558
7:45 AM	12	251	36	0	24	234	14	2	26	32	9	0	15	49	24	0	728
8:00 AM	16	247	9	0	22	216	13	2	25	34	12	0	17	21	47	0	681
8:15 AM	4	211	6	0	10	164	8	1	23	10	7	0	11	22	7	0	484
8:30 AM	9	189	6	0	13	136	10	3	11	10	10	0	6	10	6	0	419
8:45 AM	3	214	8	0	8	153	4	2	19	8	7	0	16	2	16	0	460
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	58	1633	99	0	111	1369	80	16	156	127	66	1	92	145	135	0	4088
	3.24%	91.23%	5.53%	0.00%	7.04%	86.87%	5.08%	1.02%	44.57%	36.29%	18.86%	0.29%	24.73%	38.98%	36.29%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	41	917	68	0	69	799	51	8	95	98	38	0	56	112	99	0	2451
PEAK HR FACTOR :	0.641	0.913	0.472	0.000	0.719	0.854	0.797	0.667	0.913	0.721	0.792	0.000	0.824	0.571	0.527	0.000	0.842
	0.858				0.846				0.813				0.759				
PM	1 NL	2 NT	0 NR	0 NU	1 SL	2 ST	0 SR	0 SU	1 EL	1 ET	0 ER	0 EU	1 WL	1 WT	0 WR	0 WU	
4:00 PM	8	237	7	0	20	198	15	2	21	20	7	0	8	16	10	0	569
4:15 PM	5	209	10	2	25	191	13	6	22	16	9	0	11	13	12	0	544
4:30 PM	7	237	9	2	22	208	17	2	23	40	8	0	10	18	11	0	614
4:45 PM	4	243	12	2	26	244	18	3	24	37	9	0	9	13	9	0	653
5:00 PM	9	231	11	2	21	219	16	4	24	29	6	0	12	11	16	0	611
5:15 PM	6	240	6	0	27	243	19	2	36	44	16	0	10	12	24	0	685
5:30 PM	6	247	12	2	21	220	14	6	32	43	7	0	4	21	16	0	651
5:45 PM	8	211	13	4	30	201	18	0	30	43	13	0	12	14	33	0	630
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	53	1855	80	14	192	1724	130	25	212	272	75	0	76	118	131	0	4957
	2.65%	92.66%	4.00%	0.70%	9.27%	83.24%	6.28%	1.21%	37.92%	48.66%	13.42%	0.00%	23.38%	36.31%	40.31%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	25	961	41	6	95	926	67	15	116	153	38	0	35	57	65	0	2600
PEAK HR FACTOR :	0.694	0.973	0.854	0.750	0.880	0.949	0.882	0.625	0.806	0.869	0.594	0.000	0.729	0.679	0.677	0.000	0.949
	0.967				0.948				0.799				0.853				

VOLUME

220th St Bet. Dolores St & Neptune Ave

Day: Tuesday
Date: 6/4/2019

City: Carson
Project #: CA19_5359_001

DAILY TOTALS					NB	SB					Total
					0	0	EB	WB			4,976
							2,712	2,264			
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00			2	5	7	12:00			29	43	72
00:15			0	5	5	12:15			24	37	61
00:30			1	6	7	12:30			56	41	97
00:45			2	5	7	12:45			44	153	197
01:00			1	4	5	13:00			44	29	73
01:15			2	1	3	13:15			42	36	78
01:30			1	2	3	13:30			33	38	71
01:45			1	5	6	13:45			39	158	197
02:00			1	3	4	14:00			38	38	76
02:15			1	0	1	14:15			54	33	87
02:30			2	2	4	14:30			52	39	91
02:45			4	8	12	14:45			55	199	254
03:00			6	1	7	15:00			51	34	85
03:15			0	0	0	15:15			55	28	83
03:30			2	2	4	15:30			59	33	92
03:45			1	9	10	15:45			67	232	299
04:00			2	3	5	16:00			53	33	86
04:15			1	1	2	16:15			48	40	88
04:30			3	8	11	16:30			99	50	149
04:45			5	11	16	16:45			68	268	336
05:00			5	6	11	17:00			67	43	110
05:15			6	5	11	17:15			94	33	127
05:30			11	5	16	17:30			99	43	142
05:45			19	41	60	17:45			81	341	422
06:00			13	17	30	18:00			59	47	106
06:15			9	15	24	18:15			55	44	99
06:30			11	22	33	18:30			61	31	92
06:45			22	55	77	18:45			40	215	255
07:00			30	23	53	19:00			34	30	64
07:15			34	45	79	19:15			39	29	68
07:30			53	66	119	19:30			41	36	77
07:45			41	158	199	19:45			24	138	162
08:00			44	60	104	20:00			19	25	44
08:15			41	33	74	20:15			25	15	40
08:30			29	26	55	20:30			21	34	55
08:45			30	144	174	20:45			10	75	85
09:00			15	35	50	21:00			15	18	33
09:15			30	24	54	21:15			15	23	38
09:30			21	31	52	21:30			18	11	29
09:45			31	97	128	21:45			17	65	82
10:00			32	25	57	22:00			17	4	21
10:15			20	42	62	22:15			11	6	17
10:30			34	19	53	22:30			17	11	28
10:45			44	130	174	22:45			11	56	67
11:00			26	24	50	23:00			7	9	16
11:15			36	26	62	23:15			3	3	6
11:30			35	32	67	23:30			7	4	11
11:45			32	129	161	23:45			3	20	23
TOTALS			792	863	1655	TOTALS			1920	1390	3310
SPLIT %			47.9%	52.1%	33.3%	SPLIT %			57.8%	41.9%	66.7%

DAILY TOTALS					NB	SB					Total
					0	0	EB	WB			4,976
							2,712	2,264			
AM Peak Hour			07:30	07:15	07:15	PM Peak Hour			17:00	17:30	17:00
AM Pk Volume			179	261	433	PM Pk Volume			341	181	507
Pk Hr Factor			0.844	0.725	0.826	Pk Hr Factor			0.861	0.963	0.893
7 - 9 Volume	0	0	302	363	665	4 - 6 Volume	0	0	609	325	934
7 - 9 Peak Hour			07:30	07:15	07:15	4 - 6 Peak Hour			17:00	16:15	17:00
7 - 9 Pk Volume	0	0	179	261	433	4 - 6 Pk Volume	0	0	341	169	507
Pk Hr Factor	0.000	0.000	0.844	0.725	0.826	Pk Hr Factor	0.000	0.000	0.861	0.845	0.893

VOLUME

220th St Bet. Grace Ave & Avalon Blvd

Day: Tuesday
Date: 6/4/2019

City: Carson
Project #: CA19_5359_002

DAILY TOTALS					NB	SB					Total		
					0	0	EB	WB			4,909		
							2,636	2,273					
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00			2	7	9	12:00			26	37	63		
00:15			5	9	14	12:15			31	35	66		
00:30			2	9	11	12:30			49	37	86		
00:45			1	10	2	12:45			39	145	31	140	285
01:00			5	4	9	13:00			49	28	77		
01:15			2	2	4	13:15			43	35	78		
01:30			1	2	3	13:30			42	47	89		
01:45			4	12	3	13:45			44	178	64	174	352
02:00			0	3	3	14:00			43	47	90		
02:15			1	0	1	14:15			50	29	79		
02:30			1	2	3	14:30			52	36	88		
02:45			3	5	2	14:45			47	192	50	162	354
03:00			5	1	6	15:00			45	36	81		
03:15			0	0	0	15:15			46	39	85		
03:30			2	0	2	15:30			59	33	92		
03:45			3	10	1	15:45			68	218	39	147	365
04:00			3	2	5	16:00			50	41	91		
04:15			3	1	4	16:15			49	45	94		
04:30			3	1	4	16:30			72	40	112		
04:45			8	17	2	16:45			73	244	45	171	415
05:00			6	4	10	17:00			70	39	109		
05:15			7	2	9	17:15			83	41	124		
05:30			15	3	18	17:30			81	35	116		
05:45			19	47	10	17:45			72	306	39	154	460
06:00			13	10	23	18:00			58	48	106		
06:15			15	10	25	18:15			50	43	93		
06:30			19	15	34	18:30			43	25	68		
06:45			22	69	25	18:45			36	187	52	168	355
07:00			23	14	37	19:00			31	33	64		
07:15			33	41	74	19:15			35	43	78		
07:30			56	52	108	19:30			36	39	75		
07:45			65	177	76	19:45			17	119	20	135	254
08:00			57	55	112	20:00			14	26	40		
08:15			35	35	70	20:15			22	17	39		
08:30			30	32	62	20:30			23	40	63		
08:45			29	151	11	20:45			15	74	15	98	172
09:00			22	31	53	21:00			21	15	36		
09:15			35	22	57	21:15			16	19	35		
09:30			28	20	48	21:30			9	13	22		
09:45			31	116	23	21:45			13	59	19	66	125
10:00			35	20	55	22:00			15	10	25		
10:15			20	44	64	22:15			9	11	20		
10:30			29	25	54	22:30			10	10	20		
10:45			41	125	31	22:45			9	43	12	43	86
11:00			24	26	50	23:00			9	13	22		
11:15			32	28	60	23:15			2	12	14		
11:30			26	29	55	23:30			5	4	9		
11:45			32	114	37	23:45			2	18	2	31	49
TOTALS			853	784	1637	TOTALS			1783	1489	3272		
SPLIT %			52.1%	47.9%	33.3%	SPLIT %			54.5%	45.5%	66.7%		

DAILY TOTALS					NB	SB					Total
					0	0	EB	WB			4,909
							2,636	2,273			
AM Peak Hour			07:30	07:15	07:15	PM Peak Hour			16:45	13:15	16:45
AM Pk Volume			213	224	435	PM Pk Volume			307	193	467
Pk Hr Factor			0.819	0.737	0.771	Pk Hr Factor			0.925	0.754	0.942
7 - 9 Volume	0	0	328	316	644	4 - 6 Volume	0	0	550	325	875
7 - 9 Peak Hour			07:30	07:15	07:15	4 - 6 Peak Hour			16:45	16:00	16:45
7 - 9 Pk Volume	0	0	213	224	435	4 - 6 Pk Volume	0	0	307	171	467
Pk Hr Factor	0.000	0.000	0.819	0.737	0.771	Pk Hr Factor	0.000	0.000	0.925	0.950	0.942

Intersection Analysis

Existing Conditions

Scenario Report

Scenario: EX AM
Command: EX AM
Volume: EX AM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: NONE
Trip Distribution: NONE
Paths: Default Path
Routes: Default Route
Configuration: EXISTING

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	98	217	33	22	182	92	37	139	64	31	216	21
4 Avalon Boulev	41	917	68	77	799	51	95	98	38	56	112	99

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	98	217	33	22	182	92	37	139	64	31	216	21
4 Avalon Boulev	41	917	68	77	799	51	95	98	38	56	112	99

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	B	xxxxx 0.693	B	xxxxx 0.693	+ 0.000 V/C
# 4 Avalon Boulevard/220th Street	C	xxxxx 0.750	C	xxxxx 0.750	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.693
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 49 Level Of Service: B

Street Name: Dolores Street 220th Street

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0

Volume Module:

Base Vol: 98 217 33 22 182 92 37 139 64 31 216 21
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 98 217 33 22 182 92 37 139 64 31 216 21
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 98 217 33 22 182 92 37 139 64 31 216 21
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74
PHF Volume: 133 294 45 30 247 125 50 189 87 42 293 28
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 133 294 45 30 247 125 50 189 87 42 293 28
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume: 133 294 45 30 247 125 50 189 87 42 293 28

Saturation Flow Module:

Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.28 0.63 0.09 0.07 0.62 0.31 0.15 0.58 0.27 0.11 0.81 0.08
Final Sat.: 451 998 152 119 984 497 247 927 427 185 1290 125

Capacity Analysis Module:

Vol/Sat: 0.08 0.30 0.30 0.02 0.25 0.25 0.03 0.20 0.20 0.03 0.23 0.23
Crit Moves: **** **** **** ****

HCM 6th TWSC
2: 220th Street & Project Access Driveway

Existing AM
Timing Plan: AM Peak Hour

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↷		↶	
Traffic Vol, veh/h	0	213	256	0	0	0
Future Vol, veh/h	0	213	256	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	232	278	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	278	0	0	510	278
Stage 1	-	-	-	278	-
Stage 2	-	-	-	232	-
Critical Hdwy	4.12	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	3.518	3.318
Pot Cap-1 Maneuver	1285	-	-	523	761
Stage 1	-	-	-	769	-
Stage 2	-	-	-	807	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	1285	-	-	523	761
Mov Cap-2 Maneuver	-	-	-	523	-
Stage 1	-	-	-	769	-
Stage 2	-	-	-	807	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1285	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Intersection Delay, s/veh	12.7
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	39	156	18	13	173	29	50	93	31	27	64	33
Future Vol, veh/h	39	156	18	13	173	29	50	93	31	27	64	33
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	53	211	24	18	234	39	68	126	42	36	86	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.2	13.1	12.5	11.2
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	18%	6%	22%
Vol Thru, %	53%	73%	80%	52%
Vol Right, %	18%	8%	13%	27%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	174	213	215	124
LT Vol	50	39	13	27
Through Vol	93	156	173	64
RT Vol	31	18	29	33
Lane Flow Rate	235	288	291	168
Geometry Grp	1	1	1	1
Degree of Util (X)	0.38	0.448	0.448	0.274
Departure Headway (Hd)	5.817	5.607	5.552	5.891
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	614	639	645	605
Service Time	3.89	3.676	3.62	3.972
HCM Lane V/C Ratio	0.383	0.451	0.451	0.278
HCM Control Delay	12.5	13.2	13.1	11.2
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.8	2.3	2.3	1.1

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.750
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 57 Level Of Service: C

Table with columns for Street Name (Avalon Boulevard, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Permitted), Rights (Include), and various timing parameters like Min. Green, Y+R, and Lanes.

Volume Module table showing Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume across different movements.

Saturation Flow Module table showing Sat/Lane, Adjustment, Lanes, and Final Sat. for each movement.

Capacity Analysis Module table showing Vol/Sat and Crit Moves for each movement.

Scenario Report

Scenario: EX PM
Command: EX PM
Volume: EX PM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: NONE
Trip Distribution: NONE
Paths: Default Path
Routes: Default Route
Configuration: EXISTING

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	149	23	26	162	33	49	300	52	15	131	24
4 Avalon Boulev	31	961	41	110	926	67	116	153	38	35	57	65

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	149	23	26	162	33	49	300	52	15	131	24
4 Avalon Boulev	31	961	41	110	926	67	116	153	38	35	57	65

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	A	xxxxx 0.535	A	xxxxx 0.535	+ 0.000 V/C
# 4 Avalon Boulevard/220th Street	B	xxxxx 0.659	B	xxxxx 0.659	+ 0.000 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.535
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 35 Level Of Service: A

Table with columns for Street Name (Dolores Street, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

HCM 6th TWSC
2: 220th Street & Project Access Driveway

Existing PM
Timing Plan: PM Peak Hour

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↷		↶	
Traffic Vol, veh/h	0	325	157	0	0	0
Future Vol, veh/h	0	325	157	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	353	171	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	171	0	-	0	524 171
Stage 1	-	-	-	-	171 -
Stage 2	-	-	-	-	353 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1406	-	-	-	514 873
Stage 1	-	-	-	-	859 -
Stage 2	-	-	-	-	711 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1406	-	-	-	514 873
Mov Cap-2 Maneuver	-	-	-	-	514 -
Stage 1	-	-	-	-	859 -
Stage 2	-	-	-	-	711 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1406	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Intersection Delay, s/veh	11.2
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	50	249	26	7	112	10	17	74	20	36	70	28
Future Vol, veh/h	50	249	26	7	112	10	17	74	20	36	70	28
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	57	283	30	8	127	11	19	84	23	41	80	32
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	12.9	9.6	9.8	10
HCM LOS	B	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	15%	15%	5%	27%
Vol Thru, %	67%	77%	87%	52%
Vol Right, %	18%	8%	8%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	111	325	129	134
LT Vol	17	50	7	36
Through Vol	74	249	112	70
RT Vol	20	26	10	28
Lane Flow Rate	126	369	147	152
Geometry Grp	1	1	1	1
Degree of Util (X)	0.191	0.506	0.212	0.228
Departure Headway (Hd)	5.438	4.932	5.196	5.398
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	660	735	692	665
Service Time	3.474	2.932	3.224	3.434
HCM Lane V/C Ratio	0.191	0.502	0.212	0.229
HCM Control Delay	9.8	12.9	9.6	10
HCM Lane LOS	A	B	A	A
HCM 95th-tile Q	0.7	2.9	0.8	0.9

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.659
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 45 Level Of Service: B

Table with columns for Street Name (Avalon Boulevard, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Existing plus Project Conditions

Scenario Report

Scenario: EX + PROJ AM
Command: EX + PROJ AM
Volume: EX AM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: PROJ AM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: EXISTING

Trip Generation Report

Forecast for PROJ AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Cambria Cour	1.00	Cambria Court	6.00	20.00	6	20	26	100.0
	Zone 1 Subtotal					6	20	26	100.0
TOTAL						6	20	26	100.0

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	98	217	33	22	182	92	37	139	64	31	216	21
4 Avalon Boulev	41	917	68	77	799	51	95	98	38	56	112	99

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	98	217	33	22	182	92	37	141	64	32	222	22
4 Avalon Boulev	42	917	68	77	799	53	101	100	40	56	113	99

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	B	xxxxx 0.693	B	xxxxx 0.700	+ 0.007 V/C
# 4 Avalon Boulevard/220th Street	C	xxxxx 0.750	C	xxxxx 0.755	+ 0.005 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.700
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 50 Level Of Service: B

Table with columns for Street Name (Dolores Street, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↷		↶	↷
Traffic Vol, veh/h	2	213	256	4	12	8
Future Vol, veh/h	2	213	256	4	12	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	232	278	4	13	9

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	282	0	-	0	516 280
Stage 1	-	-	-	-	280 -
Stage 2	-	-	-	-	236 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1280	-	-	-	519 759
Stage 1	-	-	-	-	767 -
Stage 2	-	-	-	-	803 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1280	-	-	-	518 759
Mov Cap-2 Maneuver	-	-	-	-	518 -
Stage 1	-	-	-	-	765 -
Stage 2	-	-	-	-	803 -

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	11.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1280	-	-	-	593
HCM Lane V/C Ratio	0.002	-	-	-	0.037
HCM Control Delay (s)	7.8	0	-	-	11.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	13
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	40	166	19	13	176	29	50	93	31	27	64	33
Future Vol, veh/h	40	166	19	13	176	29	50	93	31	27	64	33
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	54	224	26	18	238	39	68	126	42	36	86	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.8	13.4	12.7	11.4
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	18%	6%	22%
Vol Thru, %	53%	74%	81%	52%
Vol Right, %	18%	8%	13%	27%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	174	225	218	124
LT Vol	50	40	13	27
Through Vol	93	166	176	64
RT Vol	31	19	29	33
Lane Flow Rate	235	304	295	168
Geometry Grp	1	1	1	1
Degree of Util (X)	0.385	0.476	0.458	0.278
Departure Headway (Hd)	5.888	5.631	5.599	5.966
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	607	635	639	597
Service Time	3.967	3.706	3.674	4.054
HCM Lane V/C Ratio	0.387	0.479	0.462	0.281
HCM Control Delay	12.7	13.8	13.4	11.4
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.8	2.6	2.4	1.1

Level of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.755
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 58 Level Of Service: C

Street Name: Avalon Boulevard 220th Street
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 1 0 1 1 0 1 0 1 1 0 1 0 0 1 0 1 0 0 1 0

Volume Module:
Base Vol: 41 917 68 77 799 51 95 98 38 56 112 99
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 41 917 68 77 799 51 95 98 38 56 112 99
Added Vol: 1 0 0 0 0 2 6 2 2 0 1 0
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 42 917 68 77 799 53 101 100 40 56 113 99
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84
PHF Volume: 50 1089 81 91 949 63 120 119 48 67 134 118
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 50 1089 81 91 949 63 120 119 48 67 134 118
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume: 50 1089 81 91 949 63 120 119 48 67 134 118

Saturation Flow Module:
Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 1.00 1.86 0.14 1.00 1.88 0.12 1.00 0.71 0.29 1.00 0.53 0.47
Final Sat.: 1600 2979 221 1600 3001 199 1600 1143 457 1600 853 747

Capacity Analysis Module:
Vol/Sat: 0.03 0.37 0.37 0.06 0.32 0.32 0.07 0.10 0.10 0.04 0.16 0.16
Crit Moves: **** **** **** ****

Scenario Report

Scenario: EX + PROJ PM
Command: EX + PROJ PM
Volume: EX PM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: PROJ PM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: EXISTING

Trip Generation Report

Forecast for PROJ PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Cambria Cour	1.00	Cambria Court	22.00	13.00	22	13	35	100.0
	Zone 1 Subtotal					22	13	35	100.0
TOTAL						22	13	35	100.0

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	149	23	26	162	33	49	300	52	15	131	24
4 Avalon Boulev	31	961	41	110	926	67	116	153	38	35	57	65

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	149	24	27	162	33	49	307	52	16	135	25
4 Avalon Boulev	33	961	41	110	926	74	120	154	39	35	59	65

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	A	xxxxx 0.535	A	xxxxx 0.541	+ 0.006 V/C
# 4 Avalon Boulevard/220th Street	B	xxxxx 0.659	B	xxxxx 0.663	+ 0.004 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.541
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 36 Level Of Service: A

Street Name: Dolores Street 220th Street
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0

Volume Module:
Base Vol: 23 149 23 26 162 33 49 300 52 15 131 24
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 23 149 23 26 162 33 49 300 52 15 131 24
Added Vol: 0 0 1 1 0 0 0 7 0 1 4 1
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 23 149 24 27 162 33 49 307 52 16 135 25
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95
PHF Volume: 24 157 25 28 171 35 52 323 55 17 142 26
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 24 157 25 28 171 35 52 323 55 17 142 26
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume: 24 157 25 28 171 35 52 323 55 17 142 26

Saturation Flow Module:
Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.12 0.76 0.12 0.12 0.73 0.15 0.12 0.75 0.13 0.09 0.77 0.14
Final Sat.: 188 1216 196 195 1168 238 192 1204 204 145 1227 227

Capacity Analysis Module:
Vol/Sat: 0.02 0.13 0.13 0.02 0.15 0.15 0.03 0.27 0.27 0.01 0.12 0.12
Crit Moves: ****

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↔	↔		↔	
Traffic Vol, veh/h	9	325	157	13	8	5
Future Vol, veh/h	9	325	157	13	8	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	353	171	14	9	5

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	185	0	-	0	551 178
Stage 1	-	-	-	-	178 -
Stage 2	-	-	-	-	373 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1390	-	-	-	495 865
Stage 1	-	-	-	-	853 -
Stage 2	-	-	-	-	696 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1390	-	-	-	491 865
Mov Cap-2 Maneuver	-	-	-	-	491 -
Stage 1	-	-	-	-	845 -
Stage 2	-	-	-	-	696 -

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	11.3
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1390	-	-	-	589
HCM Lane V/C Ratio	0.007	-	-	-	0.024
HCM Control Delay (s)	7.6	0	-	-	11.3
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	51	256	27	7	123	10	18	74	20	36	70	29
Future Vol, veh/h	51	256	27	7	123	10	18	74	20	36	70	29
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	58	291	31	8	140	11	20	84	23	41	80	33
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.3	9.8	9.9	10.2
HCM LOS	B	A	A	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	15%	5%	27%
Vol Thru, %	66%	77%	88%	52%
Vol Right, %	18%	8%	7%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	112	334	140	135
LT Vol	18	51	7	36
Through Vol	74	256	123	70
RT Vol	20	27	10	29
Lane Flow Rate	127	380	159	153
Geometry Grp	1	1	1	1
Degree of Util (X)	0.195	0.524	0.231	0.233
Departure Headway (Hd)	5.514	4.969	5.232	5.465
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	650	729	686	657
Service Time	3.552	2.969	3.266	3.503
HCM Lane V/C Ratio	0.195	0.521	0.232	0.233
HCM Control Delay	9.9	13.3	9.8	10.2
HCM Lane LOS	A	B	A	B
HCM 95th-tile Q	0.7	3.1	0.9	0.9

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.663
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 46 Level Of Service: B

Street Name: Avalon Boulevard 220th Street
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 1 0 1 1 0 1 0 1 1 0 1 0 0 1 0 1 0 0 1 0

Volume Module:
Base Vol: 31 961 41 110 926 67 116 153 38 35 57 65
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 31 961 41 110 926 67 116 153 38 35 57 65
Added Vol: 2 0 0 0 0 7 4 1 1 0 2 0
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 33 961 41 110 926 74 120 154 39 35 59 65
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95
PHF Volume: 35 1013 43 116 976 78 126 162 41 37 62 68
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 35 1013 43 116 976 78 126 162 41 37 62 68
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume: 35 1013 43 116 976 78 126 162 41 37 62 68

Saturation Flow Module:
Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 1.00 1.92 0.08 1.00 1.85 0.15 1.00 0.80 0.20 1.00 0.48 0.52
Final Sat.: 1600 3069 131 1600 2963 237 1600 1277 323 1600 761 839

Capacity Analysis Module:
Vol/Sat: 0.02 0.33 0.33 0.07 0.33 0.33 0.08 0.13 0.13 0.02 0.08 0.08
Crit Moves: **** **** **** ****

Future Year 2022 Conditions

Scenario Report

Scenario: OP YR AM
Command: OP YR AM
Volume: EX AM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: OP YR AM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: OP YR

Trip Generation Report

Forecast for CUMU AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
2	Carson Truck	1.00	Carson Truckin	91.00	27.00	91	27	118	18.4
	Zone 2 Subtotal					91	27	118	18.4
3	223rd Street	1.00	223rd Street C	1.00	2.00	1	2	3	0.5
	Zone 3 Subtotal					1	2	3	0.5
4	Birch Specif	1.00	Birch Specific	3.00	9.00	3	9	12	1.9
	Zone 4 Subtotal					3	9	12	1.9
5	Veterans Vil	1.00	Veterans Villa	13.00	23.00	13	23	36	5.6
	Zone 5 Subtotal					13	23	36	5.6
6	Union South	1.00	Union South Ba	124.00	163.00	124	163	287	44.8
	Zone 6 Subtotal					124	163	287	44.8
7	Carson Arts	1.00	Carson Arts Pr	5.00	16.00	5	16	21	3.3
	Zone 7 Subtotal					5	16	21	3.3
8	Carson Town	1.00	Carson Town Ce	102.00	62.00	102	62	164	25.6
	Zone 8 Subtotal					102	62	164	25.6
TOTAL						339	302	641	100.0

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	99	220	33	22	185	93	38	141	65	31	219	21
4 Avalon Boulev	42	931	69	78	811	52	96	99	39	57	114	100

 Intersection Volume Report
 Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	99	220	33	22	185	93	38	146	65	31	226	21
4 Avalon Boulev	42	962	69	82	862	56	99	100	39	57	116	103

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	C xxxxx	0.702	C xxxxx	0.708	+ 0.006 V/C
# 4 Avalon Boulevard/220th Street	C xxxxx	0.760	C xxxxx	0.780	+ 0.020 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.708
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 51 Level Of Service: C

Table with columns for Street Name (Dolores Street, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↷		↶	
Traffic Vol, veh/h	0	220	266	0	0	0
Future Vol, veh/h	0	220	266	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	239	289	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	289	0	0	528	289
Stage 1	-	-	-	289	-
Stage 2	-	-	-	239	-
Critical Hdwy	4.12	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	3.518	3.318
Pot Cap-1 Maneuver	1273	-	-	511	750
Stage 1	-	-	-	760	-
Stage 2	-	-	-	801	-
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	1273	-	-	511	750
Mov Cap-2 Maneuver	-	-	-	511	-
Stage 1	-	-	-	760	-
Stage 2	-	-	-	801	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1273	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Intersection Delay, s/veh	13.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	40	162	18	13	182	29	51	94	31	27	65	33
Future Vol, veh/h	40	162	18	13	182	29	51	94	31	27	65	33
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	54	219	24	18	246	39	69	127	42	36	88	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.7	13.6	12.8	11.4
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	18%	6%	22%
Vol Thru, %	53%	74%	81%	52%
Vol Right, %	18%	8%	13%	26%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	176	220	224	125
LT Vol	51	40	13	27
Through Vol	94	162	182	65
RT Vol	31	18	29	33
Lane Flow Rate	238	297	303	169
Geometry Grp	1	1	1	1
Degree of Util (X)	0.39	0.468	0.471	0.281
Departure Headway (Hd)	5.901	5.664	5.606	5.984
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	604	630	639	595
Service Time	3.983	3.741	3.683	4.072
HCM Lane V/C Ratio	0.394	0.471	0.474	0.284
HCM Control Delay	12.8	13.7	13.6	11.4
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.8	2.5	2.5	1.1

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.780
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 63 Level Of Service: C

Table with columns for Street Name (Avalon Boulevard, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Permitted), Rights (Include), and various timing parameters like Min. Green, Y+R, and Lanes.

Volume Module table showing Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume for each approach.

Saturation Flow Module table showing Sat/Lane, Adjustment, Lanes, and Final Sat. for each approach.

Capacity Analysis Module table showing Vol/Sat and Crit Moves for each approach.

Scenario Report

Scenario: OP YR PM
Command: OP YR PM
Volume: EX PM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: OP YR PM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: OP YR

Trip Generation Report

Forecast for CUMU PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
2	Carson Truck	1.00	Carson Truckin	36.00	97.00	36	97	133	10.2
	Zone 2 Subtotal					36	97	133	10.2
3	223rd Street	1.00	223rd Street C	2.00	2.00	2	2	4	0.3
	Zone 3 Subtotal					2	2	4	0.3
4	Birch Specif	1.00	Birch Specific	9.00	5.00	9	5	14	1.1
	Zone 4 Subtotal					9	5	14	1.1
5	Veterans Vil	1.00	Veterans Villa	17.00	13.00	17	13	30	2.3
	Zone 5 Subtotal					17	13	30	2.3
6	Union South	1.00	Union South Ba	235.00	189.00	235	189	424	32.7
	Zone 6 Subtotal					235	189	424	32.7
7	Carson Arts	1.00	Carson Arts Pr	16.00	10.00	16	10	26	2.0
	Zone 7 Subtotal					16	10	26	2.0
8	Carson Town	1.00	Carson Town Ce	320.00	347.00	320	347	667	51.4
	Zone 8 Subtotal					320	347	667	51.4
TOTAL						635	663	1298	100.0

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	151	23	26	164	33	50	304	53	15	133	24
4 Avalon Boulev	31	975	42	112	940	68	118	155	39	36	58	66

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	24	151	23	26	164	33	50	318	54	15	145	24
4 Avalon Boulev	32	1042	42	117	986	73	124	162	40	36	64	72

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	A	xxxxx 0.541	A	xxxxx 0.552	+ 0.011 V/C
# 4 Avalon Boulevard/220th Street	B	xxxxx 0.668	C	xxxxx 0.705	+ 0.037 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.552
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 36 Level Of Service: A

Table with columns for Street Name (Dolores Street, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↶	↷		↶	
Traffic Vol, veh/h	0	345	172	0	0	0
Future Vol, veh/h	0	345	172	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	375	187	0	0	0

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	187	0	-	0	562 187
Stage 1	-	-	-	-	187 -
Stage 2	-	-	-	-	375 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1387	-	-	-	488 855
Stage 1	-	-	-	-	845 -
Stage 2	-	-	-	-	695 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1387	-	-	-	488 855
Mov Cap-2 Maneuver	-	-	-	-	488 -
Stage 1	-	-	-	-	845 -
Stage 2	-	-	-	-	695 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1387	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	-	0
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	-

Intersection	
Intersection Delay, s/veh	11.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	51	267	27	7	126	10	18	75	20	37	71	28
Future Vol, veh/h	51	267	27	7	126	10	18	75	20	37	71	28
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	58	303	31	8	143	11	20	85	23	42	81	32
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.8	10	10	10.3
HCM LOS	B	A	A	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	15%	5%	27%
Vol Thru, %	66%	77%	88%	52%
Vol Right, %	18%	8%	7%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	113	345	143	136
LT Vol	18	51	7	37
Through Vol	75	267	126	71
RT Vol	20	27	10	28
Lane Flow Rate	128	392	163	155
Geometry Grp	1	1	1	1
Degree of Util (X)	0.198	0.544	0.238	0.237
Departure Headway (Hd)	5.565	4.991	5.268	5.522
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	643	725	681	649
Service Time	3.61	2.991	3.303	3.565
HCM Lane V/C Ratio	0.199	0.541	0.239	0.239
HCM Control Delay	10	13.8	10	10.3
HCM Lane LOS	A	B	A	B
HCM 95th-tile Q	0.7	3.3	0.9	0.9

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.705
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 51 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include data for North Bound, South Bound, East Bound, and West Bound movements.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Future Year 2022 plus Project Conditions

Scenario Report

Scenario: OP YR + PROJ AM
Command: OP YR + PROJ AM
Volume: EX AM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: OP YR + PROJ AM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: OP YR

Trip Generation Report

Forecast for PROJ AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Cambria Cour	1.00	Cambria Court	6.00	20.00	6	20	26	3.9
	Zone 1 Subtotal					6	20	26	3.9
TOTAL						6	20	26	3.9

Trip Generation Report

Forecast for CUMU AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
2	Carson Truck	1.00	Carson Truckin	91.00	27.00	91	27	118	17.7
	Zone 2 Subtotal					91	27	118	17.7
3	223rd Street	1.00	223rd Street C	1.00	2.00	1	2	3	0.4
	Zone 3 Subtotal					1	2	3	0.4
4	Birch Specif	1.00	Birch Specific	3.00	9.00	3	9	12	1.8
	Zone 4 Subtotal					3	9	12	1.8
5	Veterans Vil	1.00	Veterans Villa	13.00	23.00	13	23	36	5.4
	Zone 5 Subtotal					13	23	36	5.4
6	Union South	1.00	Union South Ba	124.00	163.00	124	163	287	43.0
	Zone 6 Subtotal					124	163	287	43.0
7	Carson Arts	1.00	Carson Arts Pr	5.00	16.00	5	16	21	3.1
	Zone 7 Subtotal					5	16	21	3.1
8	Carson Town	1.00	Carson Town Ce	102.00	62.00	102	62	164	24.6
	Zone 8 Subtotal					102	62	164	24.6
TOTAL						339	302	641	96.1

Intersection Volume Report
Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	99	220	33	22	185	93	38	141	65	31	219	21
4 Avalon Boulev	42	931	69	78	811	52	96	99	39	57	114	100

Intersection Volume Report
Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	99	220	33	22	185	93	38	147	65	32	232	22
4 Avalon Boulev	43	962	69	82	862	58	105	102	41	57	117	103

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	C	xxxxx 0.702	C	xxxxx 0.714	+ 0.013 V/C
# 4 Avalon Boulevard/220th Street	C	xxxxx 0.760	C	xxxxx 0.785	+ 0.026 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.714
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 52 Level Of Service: C

Street Name: Dolores Street 220th Street
Approach: North Bound South Bound East Bound West Bound
Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0

Volume Module:
Base Vol: 98 217 33 22 182 92 37 139 64 31 216 21
Growth Adj: 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01
Initial Bse: 99 220 33 22 185 93 38 141 65 31 219 21
Added Vol: 0 0 0 0 0 0 0 6 0 1 13 1
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 99 220 33 22 185 93 38 147 65 32 232 22
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74
PHF Volume: 135 299 45 30 251 127 51 200 88 44 315 30
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 135 299 45 30 251 127 51 200 88 44 315 30
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
FinalVolume: 135 299 45 30 251 127 51 200 88 44 315 30

Saturation Flow Module:
Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.28 0.63 0.09 0.07 0.62 0.31 0.15 0.59 0.26 0.11 0.81 0.08
Final Sat.: 451 998 152 119 984 497 241 943 416 181 1295 124

Capacity Analysis Module:
Vol/Sat: 0.08 0.30 0.30 0.02 0.25 0.25 0.03 0.21 0.21 0.03 0.24 0.24
Crit Moves: ****

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Traffic Vol, veh/h	2	220	266	4	12	8
Future Vol, veh/h	2	220	266	4	12	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	239	289	4	13	9

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	293	0	-	0	534 291
Stage 1	-	-	-	-	291 -
Stage 2	-	-	-	-	243 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1269	-	-	-	507 748
Stage 1	-	-	-	-	759 -
Stage 2	-	-	-	-	797 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1269	-	-	-	506 748
Mov Cap-2 Maneuver	-	-	-	-	506 -
Stage 1	-	-	-	-	757 -
Stage 2	-	-	-	-	797 -

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	11.4
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1269	-	-	-	581
HCM Lane V/C Ratio	0.002	-	-	-	0.037
HCM Control Delay (s)	7.8	0	-	-	11.4
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	13.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	41	172	19	13	185	29	51	94	31	27	65	33
Future Vol, veh/h	41	172	19	13	185	29	51	94	31	27	65	33
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	55	232	26	18	250	39	69	127	42	36	88	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	14.3	13.9	12.9	11.6
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	18%	6%	22%
Vol Thru, %	53%	74%	81%	52%
Vol Right, %	18%	8%	13%	26%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	176	232	227	125
LT Vol	51	41	13	27
Through Vol	94	172	185	65
RT Vol	31	19	29	33
Lane Flow Rate	238	314	307	169
Geometry Grp	1	1	1	1
Degree of Util (X)	0.394	0.495	0.482	0.284
Departure Headway (Hd)	5.97	5.688	5.652	6.056
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	597	630	632	588
Service Time	4.059	3.768	3.732	4.153
HCM Lane V/C Ratio	0.399	0.498	0.486	0.287
HCM Control Delay	12.9	14.3	13.9	11.6
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.9	2.7	2.6	1.2

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.785
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 64 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Avalon Boulevard and 220th Street with various movement and control details.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume. Rows include various volume and adjustment factors.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, Final Sat. Rows include saturation flow and adjustment values.

Capacity Analysis Module table with columns for Vol/Sat, Crit Moves. Rows include volume per saturation and critical moves.

Scenario Report

Scenario: OP YR + PROJ PM
Command: OP YR + PROJ PM
Volume: EX PM
Geometry: Default Geometry
Impact Fee: Default Impact Fee
Trip Generation: OP YR + PROJ PM
Trip Distribution: DISTRIBUTION
Paths: Default Path
Routes: Default Route
Configuration: OP YR

Trip Generation Report

Forecast for PROJ PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Cambria Cour	1.00	Cambria Court	22.00	13.00	22	13	35	2.6
	Zone 1 Subtotal					22	13	35	2.6
TOTAL						22	13	35	2.6

Trip Generation Report

Forecast for CUMU PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
2	Carson Truck	1.00	Carson Truckin	36.00	97.00	36	97	133	10.0
	Zone 2 Subtotal					36	97	133	10.0
3	223rd Street	1.00	223rd Street C	2.00	2.00	2	2	4	0.3
	Zone 3 Subtotal					2	2	4	0.3
4	Birch Specif	1.00	Birch Specific	9.00	5.00	9	5	14	1.1
	Zone 4 Subtotal					9	5	14	1.1
5	Veterans Vil	1.00	Veterans Villa	17.00	13.00	17	13	30	2.3
	Zone 5 Subtotal					17	13	30	2.3
6	Union South	1.00	Union South Ba	235.00	189.00	235	189	424	31.8
	Zone 6 Subtotal					235	189	424	31.8
7	Carson Arts	1.00	Carson Arts Pr	16.00	10.00	16	10	26	2.0
	Zone 7 Subtotal					16	10	26	2.0
8	Carson Town	1.00	Carson Town Ce	320.00	347.00	320	347	667	50.0
	Zone 8 Subtotal					320	347	667	50.0
TOTAL						635	663	1298	97.4

 Intersection Volume Report
 Base Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	23	151	23	26	164	33	50	304	53	15	133	24
4 Avalon Boulev	31	975	42	112	940	68	118	155	39	36	58	66

 Intersection Volume Report
 Future Volume Alternative

Node Intersection	Northbound			Southbound			Eastbound			Westbound		
	L	T	R	L	T	R	L	T	R	L	T	R
1 Dolores Stree	24	151	24	27	164	33	50	325	54	16	149	25
4 Avalon Boulev	34	1042	42	117	986	79	128	163	41	36	67	72

Impact Analysis Report
Level Of Service

Intersection	Base		Future		Change in
	Del/ LOS	V/ Veh C	Del/ LOS	V/ Veh C	
# 1 Dolores Street/220th Street	A	xxxxx 0.541	A	xxxxx 0.558	+ 0.016 V/C
# 4 Avalon Boulevard/220th Street	B	xxxxx 0.668	C	xxxxx 0.709	+ 0.042 V/C

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Dolores Street/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.558
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 37 Level Of Service: A

Table with columns for Street Name (Dolores Street, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Traffic Vol, veh/h	9	345	172	13	8	5
Future Vol, veh/h	9	345	172	13	8	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	375	187	14	9	5

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	201	0	-	0	589 194
Stage 1	-	-	-	-	194 -
Stage 2	-	-	-	-	395 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1371	-	-	-	471 847
Stage 1	-	-	-	-	839 -
Stage 2	-	-	-	-	681 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1371	-	-	-	467 847
Mov Cap-2 Maneuver	-	-	-	-	467 -
Stage 1	-	-	-	-	831 -
Stage 2	-	-	-	-	681 -

Approach	EB	WB	SB
HCM Control Delay, s	0.2	0	11.5
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1371	-	-	-	564
HCM Lane V/C Ratio	0.007	-	-	-	0.025
HCM Control Delay (s)	7.6	0	-	-	11.5
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Intersection	
Intersection Delay, s/veh	12.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	52	274	28	7	137	10	19	75	20	37	71	29
Future Vol, veh/h	52	274	28	7	137	10	19	75	20	37	71	29
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	59	311	32	8	156	11	22	85	23	42	81	33
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	14.2	10.2	10.1	10.4
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	17%	15%	5%	27%
Vol Thru, %	66%	77%	89%	52%
Vol Right, %	18%	8%	6%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	114	354	154	137
LT Vol	19	52	7	37
Through Vol	75	274	137	71
RT Vol	20	28	10	29
Lane Flow Rate	130	402	175	156
Geometry Grp	1	1	1	1
Degree of Util (X)	0.203	0.559	0.258	0.242
Departure Headway (Hd)	5.642	5.003	5.306	5.591
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	635	720	677	641
Service Time	3.684	3.031	3.343	3.632
HCM Lane V/C Ratio	0.205	0.558	0.258	0.243
HCM Control Delay	10.1	14.2	10.2	10.4
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	0.8	3.5	1	0.9

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Avalon Boulevard/220th Street

Cycle (sec): 100 Critical Vol./Cap.(X): 0.709
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 51 Level Of Service: C

Table with columns for Street Name (Avalon Boulevard, 220th Street), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with columns for Vol/Sat and Crit Moves.

Queuing Analysis

Existing plus Project

2: 220th Street & Project Access Driveway Performance by movement

Intersection: 2: 220th Street & Project Access Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	30
Average Queue (ft)	13
95th Queue (ft)	37
Link Distance (ft)	190
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

2: 220th Street & Project Access Driveway Performance by movement

Intersection: 2: 220th Street & Project Access Driveway

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	38	30
Average Queue (ft)	2	9
95th Queue (ft)	18	32
Link Distance (ft)	458	190
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Future Year 2022 plus Project

2: 220th Street & Project Access Driveway Performance by movement

Intersection: 2: 220th Street & Project Access Driveway

Movement	SB
Directions Served	LR
Maximum Queue (ft)	35
Average Queue (ft)	13
95th Queue (ft)	37
Link Distance (ft)	190
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

2: 220th Street & Project Access Driveway Performance by movement

Intersection: 2: 220th Street & Project Access Driveway

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	27	30
Average Queue (ft)	2	10
95th Queue (ft)	15	33
Link Distance (ft)	458	190
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		